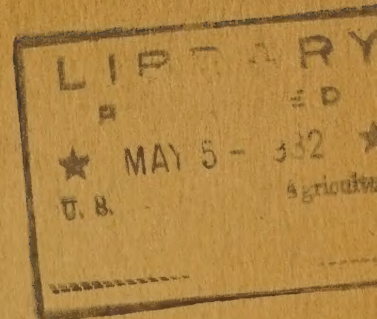


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UNITED STATES DEPARTMENT OF AGRICULTURE

OFFICE OF EXPERIMENT STATIONS

JAMES T. JARDINE, CHIEF

CLASSIFIED LIST OF PROJECTS

in

Agricultural Economics and Rural Sociology
Federal Bureaus, State Agricultural Experiment Stations,
and
Independent Institutions
Year ended June 30, 1931.

Compiled in Office of Experiment Stations

by

B. Youngblood

Principal Agricultural Economist

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Exhibit 2 - [illegible]

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MAY 10 1932

Janice S. Brewa

LIST OF RESEARCH PROJECTS IN AGRICULTURAL
ECONOMICS AND RURAL SOCIOLOGY---BUREAU OF
AGRICULTURAL ECONOMICS, STATE AGRICULTURAL
EXPERIMENT STATIONS, AND INDEPENDENT
INSTITUTIONS.

1930-1931.

This is the first attempt to bring together in a single volume a classified list of active research projects in agricultural economics and rural sociology for a particular year in Federal Bureaus, State Agricultural Experiment Stations, and independent institutions. The list probably falls short of completeness in both number of projects under way in the United States and interesting details. Since the close of the fiscal year, some of the projects listed have doubtless been completed or revised and others initiated. Unavoidably, the necessary information concerning the projects included could be obtained only after the end of the year and some six months time was consumed by the routine of gathering them. Nevertheless, the list is probably the most comprehensive one as yet prepared and represents fairly well the data submitted by the agencies concerned.

The present demand, coming from specialists and leaders for this more general information concerning research developments in the rural social sciences, probably dates back to 1910 when the American Farm Management Association was organized. The passage of the Purnell Act in 1925 greatly accentuated this demand. In response to the interest manifested, the Advisory Committee on Social and Economic Research in Agriculture of the Social Science Research Council made surveys and issued preliminary reports on agricultural economic and rural sociological research in the United States for the year ended July 1, 1927. Thereafter, the Advisory Committee began the formulation of a series of reports on scope and method in the several subfields, a number of which have been issued during the past two years. The remaining volumes are in course of preparation and will be issued as completed.

In 1929, the Advisory Committee took a further step forward when it appointed a subcommittee to confer with the Federal Bureau of Agricultural Economics and Office of Experiment Stations concerning the publication of a more comprehensive list of projects under way in these two newer fields of research in the United States. It was generally agreed that the Office of Experiment Stations was the most appropriate agency to issue such a list. With the cooperation of the agencies concerned, the Office undertook the task assigned.

The Advisory Committee authorized one of its number, Dr. L. C. Gray, to canvass the independent institutions for the necessary information concerning their active projects in the two fields and provided the necessary stamps and stationery for the purpose. These data were turned over to the Office of Experiment Stations as soon as received. The Office of Experiment Stations collected the information concerning the projects under way at the State stations. The Bureau of Agricultural Economics furnished a list of projects under

way entitled, "Research in Progress in the Bureau of Agricultural Economics, March 1, 1931". The Bureau's list contains valuable information concerning project titles, objectives, personnel, cooperation, date begun, and probable date of completion. Inasmuch as such lists are issued annually by the Bureau for the use of research workers, it was thought needless expense to repeat the objectives of Bureau projects. In the case of most of the State experiment stations and independent institutions, however, the project objectives are stated.

The method of classification followed is similar to that adopted by the Office of Experiment Stations in its list of classified projects of the agricultural experiment stations for the year ended June 30, 1930. Some slight deviations from this classification, however, seemed advisable. For example, farm management enterprises heretofore listed under the subtitles "grain and hay" and "fiber crops" are combined in the present report under the more general heading, "field crops". Included under this heading are some additional field crops such as tobacco, potatoes, beans, and peas when grown under field conditions. Of course, those interested in examining particular programs of research may re-combine the related projects embraced in accordance with whatever classification may best serve their purpose.

The present list includes a total of 816 projects, comprising 286 from the Bureau of Agricultural Economics, 4 from the Bureau of Home Economics, 500 from the State experiment stations, 1 from the Children's Bureau, United States Department of Labor, and 25 from independent institutions.

For cooperation in the matter of issuing this list, credit is due the Advisory Committee on Social and Economic Research in Agriculture of the Social Science Research Council, the administrative officers and specialists of the State, Federal and independent research agencies concerned.

* * * * *

ABBREVIATIONS USED

- U. S. D. A. - United States Department of Agriculture.
- B. A. E. - Bureau of Agricultural Economics.
- B. A. I. - Bureau of Animal Industry.
- B. C. & S. - Bureau of Chemistry and Soils.
- B. D. I. - Bureau of Dairy Industry.
- B. P. I. - Bureau of Plant Industry.
- B. P. R. - Bureau of Public Roads.
- B. H. E. - Bureau of Home Economics.
- C. & L. E. - Crop and Livestock Estimates (Division of B.A.E.)
- C. M. - Cotton Marketing. (Division of B.A.E.)
- D. & P. P. - Dairy and Poultry Products (Division of B.A.E.)
- F. A. S. - Foreign Agricultural Service. (Division of B.A.E.)
- F. M. & C. - Farm Management and Cost (Division of B.A.E.)
- F. P. & R. L. - Farm Population and Rural Life (Division of B.A.E.)
- F. & V. - Fruits and Vegetables (Division of B.A.E.)
- H. F. & S. - Hay, Feed and Seed (Division of B.A.E.)
- L. M. & W. - Livestock, Meats and Wool (Division of B. A. E.)
- S. & H. R. - Statistical and Historical Research (Division of B.A.E.)

AGRICULTURAL ECONOMICS

FARM MANAGEMENT - GENERAL

BUREAU OF AGRICULTURAL ECONOMICS.

A study of farm organization and farm practice in chief type-of-farming areas of Georgia.

LEADER, E. L. Langsford. COOPERATION, Georgia State College of Agriculture. BEGUN, February 20, 1931. PROBABLE COMPLETION, 1934.

A study of farm organization and farm practice in Oklahoma.

LEADER, B. H. Thibodeaux. COOPERATION, Oklahoma Agricultural Experiment Station. BEGUN, December 1, 1930. PROBABLE COMPLETION, December 1, 1933.

A study of organization, management, income and production costs of cotton plantations in the upper Delta of Arkansas.

LEADER, B. H. Thibodeaux. COOPERATION, Arkansas Agricultural Experiment Station. BEGUN, February 1, 1930. PROBABLE COMPLETION, 1934.

A study of farm organization and farm practice in the High Plains cotton area of Texas.

LEADER, B. H. Thibodeaux. COOPERATION, Texas Agricultural Experiment Station. BEGUN, January 1, 1931. PROBABLE COMPLETION, December 1, 1933.

A study of farm organization with special reference to large-scale farms in selected areas of Kentucky.

LEADER, H. W. Hawthorne. COOPERATION, Kentucky Agricultural Experiment Station. BEGUN, June 1, 1930. PROBABLE COMPLETION, Dec. 31, 1931.

A study of rural standards of living together with the systems of farm organization and other conditioning factors in representative areas of Wisconsin.

LEADER, W. J. Roth. COOPERATION, Division of F. P. & R. L., B. A. E., and Wisconsin Agricultural Experiment Station. BEGUN, July 1, 1929. PROBABLE COMPLETION, June 30, 1932.

A study of certain human factors in farm management.

LEADERS, W. J. Roth and W. W. Wilcox. COOPERATION, Division of F. P. & R. L., and Minnesota Agricultural Experiment Station. BEGUN, April 1, 1930. PROBABLE COMPLETION, June 30, 1932.

Farm organization in East Central North Dakota.

LEADER, R. S. Kifer. COOPERATION, North Dakota Agricultural Experiment Station. BEGUN, February 20, 1930. PROBABLE COMPLETION, 1935.

A study of the organization and management of farms on the irrigation project of South Central Idaho.

LEADER, Byron Hunter. COOPERATION, Idaho Agricultural Experiment Station. BEGUN, June 1, 1930. PROBABLE COMPLETION, September 30, 1931.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - GENERAL

Large scale farming.

LEADER, D. C. Mumford. BEGUN, July 16, 1928. PROBABLE COMPLETION, June 30, 1932.

STATE AGRICULTURAL EXPERIMENT STATIONS

ALABAMA - An economic study of farm organization on the heavy clay soils of the Black Belt of Alabama.

LEADERS, J. D. Pope and C. M. Clark. OBJECTIVE, To determine the most profitable combinations of enterprises under different conditions found in the area and to evaluate the factors which affect the profitableness of the leading farm enterprises toward which the farmers of the Black Belt are shifting. AREA COVERED, Three areas on the heavy clay lands were selected to represent the Black Belt. Approximately 100 farms were in each area. TIME, Unknown. BEGUN, July, 1930. PHASES COMPLETED, First year's field work and editing of records completed. Labor income and return on investment calculated. PERCENTAGE COMPLETED, Unknown.

ALABAMA - A study of factors affecting the efficiency of farm organization and management on 11 State demonstration farms in Alabama.

LEADER, Paul A. Taylor. OBJECTIVE, To secure basic data on farm organization, management and operation; the labor and material requirements and cost of production for different enterprises; the profitableness of the practices employed such as methods of soil building, kinds of machinery used, methods of fertilization and similar factors. AREA COVERED, Eleven State demonstration farms in different regions of Alabama. TIME, Unknown. BEGUN, March, 1930. PHASES COMPLETED, General analysis completed on 1929 and 1930 records. PROBABLE COMPLETION, Unknown.

ARKANSAS - An economic and social survey of 500 farms and farm homes in representative areas of Arkansas.

LEADER, J. A. Dickey. OBJECTIVE, Study of factors affecting efficiency in farming and farm incomes and the factors affecting the standard of living of farmers. AREA COVERED, Faulkner County with a limited survey in adjacent counties. TIME, Five years. BEGUN, 1925. PHASES COMPLETED, Farm income part of study. PROBABLE COMPLETION, 1931.

ARKANSAS - Study of organization, management, and cost of production on cotton plantations.

LEADERS, E. P. Dargan and C. O. Brannen. OBJECTIVE, To study organization of enterprises, management, incomes, and cost of producing cotton. AREA COVERED, Arkansas and Mississippi Delta areas. TIME, A period of years. BEGUN, 1930. PHASES COMPLETED, Survey in Arkansas Valley. PERCENTAGE COMPLETED, Just begun. PROBABLE COMPLETION, Indefinite.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - GENERAL

CALIFORNIA - An economic study of farm organization in the Turlock Area.

LEADERS, R. L. Adams and L. A. Crawford. OBJECTIVE, To provide farmers with a basis of procedure and pertinent data to help them in reorganizing their farms for greater profitableness. AREA COVERED, About 120,000 acres of the Turlock Irrigation District in Stanislaus and Merced Counties. TIME, Three years of data collecting, assembling, analyzing, and writing. BEGUN, September 16, 1927. PHASES COMPLETED, All but a little field work; and first draft of manuscript. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, November 1, 1931.

COLORADO - An economic study of farm organization and management in the Greeley area and in northeastern Colorado.

LEADERS, R. T. Burdick and H. B. Pingrey. OBJECTIVE, To secure detailed information with respect to the organization and operation of typical irrigated farms. Within more recent years we have continued this project in order to keep in touch with readjustments which are being made from year to year, due to price changes in the case of the more important farm commodities grown in this region. AREA COVERED, Irrigated districts of northern Colorado. TIME, Nine years. BEGUN, 1922. PHASES COMPLETED, Cost of production data, particularly with reference to the more important crops grown in this region. PERCENTAGE COMPLETED, Continuous.

CONNECTICUT STORRS - The economic significance of soil type.

LEADER, I. G. Davis. OBJECTIVE, The part played by soil in farm returns, soil being but one of the factors, and the most profitable types of farm organization for each of the important soils in the State.

CONNECTICUT STORRS - The economic situation of agriculture in the Connecticut Valley.

LEADER, I. G. Davis. OBJECTIVE, Study of available data, demand of local markets, significance of soil types, enterprise studies of tobacco and other crops to determine, 1. Trends of production, consumption and prices of cigar leaf tobacco. 2. Substitute enterprises for the region. 3. Systems of farm organization best adapted to new conditions resulting from a decreased cigar consumption.

FLORIDA - Agricultural survey of some 500 farms in the general farming region of northwest Florida.

LEADER, C. V. Noble. OBJECTIVE, To formulate fundamental principles causing success or failure of farming in this general farming region. AREA COVERED, A representative sample of Jackson County, Florida, farms.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - GENERAL

TIME, A repeated survey. First survey made covering the year 1925, second survey for the year 1928, a third survey with be made for the year 1931 or 1932. BEGUN, May, 1926. PHASES COMPLETED, Summaries have been made for the 1925 survey and returned to each farmer giving a record. The 1928 survey has also been tabulated and summarized. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1932 or 1933.

IDAHO - A study of farm organization and management in the Twin Fall Irrigation project of southern Idaho.

LEADERS, Paul A. Eke and Byron Hunter of B. A. E. OBJECTIVE, To secure data of livestock and trap requirements and other information which will allow the construction of farm budgets in this area. AREA COVERED, All of Twin Fall County, Idaho, now irrigated. TIME, June 1, 1930 to January 1, 1932. Field work done June 1, 1930 to September 10, 1930. BEGUN, June 1, 1930. PHASES COMPLETED, Field work completed, analysis done and manuscript in large part written. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, Manuscript November 1, 1931.

IDAHO - A study of the organization and management of farms in the irrigated area contiguous to Idaho Falls.

LEADERS, Paul A. Eke and C. L. Holmes of B. A. E. OBJECTIVE, To determine, 1. Enterprises and farm organization best adapted to this area. 2. Study should yield information for developing farm plans which will permit adjustments to suit physical and price conditions. AREA COVERED, Parts of Booneville, Bingham, and Jefferson Counties. TIME, June 1, 1931 to June 1, 1932. BEGUN, June 1, 1931. PHASES COMPLETED, Field work well begun. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, June 1, 1932.

ILLINOIS - Agricultural adjustment.

LEADERS, H. W. Mumford and other staff members. OBJECTIVE, 1. To study present farm and home practices as they affect the welfare of the farm family and are in turn affected by changing economic conditions; 2. to keep the staff of the experiment station informed regarding changing conditions in Illinois agriculture, rural homes, and rural life by means of contacts with small groups of progressive farmers and farm women throughout the State; 3. to assist the director and departments to determine the direction new research should take and desirable shifts of emphasis on research under way in order that the results will contribute as far as possible to desirable changes in Illinois agriculture, rural homes, and rural life; and 4. to assist the experiment station in directing such changes for the greatest economic, cultural, and social benefit of Illinois farmers and their families. AREA COVERED, Entire State. TIME, Indefinite. BEGUN, June, 1928. PHASES COMPLETED, Eight Regional Agricultural Adjustment Conferences, held each fall,

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - GENERAL

1928, 1929, and 1930. Yearly attendance 1,000 including selected farmers and farm women, farm advisers, home advisers and teachers of vocational agriculture. PERCENTAGE COMPLETED, Indeterminate. PROBABLE COMPLETION, Indefinite because study is continuous.

ILLINOIS - Farm organization and management studies.

LEADERS, H. C. M. Case, M. L. Mosher, J. B. Andrews, W. A. Herrington, F. A. Fisher, and J. B. Cunningham. OBJECTIVE, 1. To study the organization, production and operation of a large number of farms located in a contiguous area; 2. to study the distribution of expenses and income between tenants and landowners; 3. to find practices and systems of farming not generally used by farmers, which are proving consistently profitable; and 4. to study the effect on the farm income of practices based on experimental data. AREA COVERED, Twelve cooperating counties in central part of State. TIME, Begun in 1924 and being reorganized into the future. Cooperation has included securing annual records from over 200 farmers during first four years, and increased about 200 cooperators a year until at present 860 farmers are cooperating. PHASES COMPLETED, Annual mimeographed reports prepared. PROBABLE COMPLETION, Indefinite.

INDIANA - Study of agricultural adjustments in northern Indiana.

LEADER, L. S. Robertson. OBJECTIVE, To determine the trend of production of different crops and livestock since 1900 and their relationship one to another; to synthesize the available economic information in order to reach a decision concerning the probable course of action for the farmers in this region. AREA COVERED, Counties in northern Indiana. BEGUN, July 1, 1925. PHASES COMPLETED, Local marketing procedure for grain, hay, livestock and feed. Agricultural changes from 1920-30. Two years financial records on 100 farms. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1934.

INDIANA - Test of farm efficiency factors.

LEADER, E. C. Young. OBJECTIVE, 1. To analyze the "efficiency factors" used in extension and research studies in farm organization with a view to determining their relative importance. 2. Which of the various factors, designed to measure certain aspects of the business, are best. 3. The quantitative limits within which these factors are operative. 4. If possible, to determine which of these factors are subject to control of the manager and the extent of this control. 5. It is hoped that new measures of certain aspects of the business may be developed. AREA COVERED, Indiana. TIME, Two years. BEGUN, September 1, 1930. PHASES COMPLETED, One year's comparison. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, September 1, 1932.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - GENERAL

IOWA - "Farm Efficiency Factors" as revealed by simple farm accounts.

LEADER, J. A. Hopkins, Jr. OBJECTIVE, To discover the significance of various farm efficiency factors and their relationship to the net income or profit of the farms concerned. AREA COVERED, Entire State. TIME, To June, 1933 - 1927 to 1930 records now under study. BEGUN, July 1, 1931. PHASES COMPLETED, Tabulation and correlation analysis of records available nearly completed. PERCENTAGE COMPLETED, 65%. analysis of records available to date. PROBABLE COMPLETION, June 30, 1933.

KANSAS - Studies of factors affecting the organization and operation of Kansas farms.

LEADERS, W. E. Grimes and J. A. Hodges. OBJECTIVE, To locate and delineate type of farming areas in Kansas; determine present organizations of farms in these areas; set up typical farming systems by type-of-farming areas and to study factors affecting the organization and operation of Kansas farms. (The objectives have been modified from time to time to conform as closely as possible with changing conditions). AREA COVERED, State of Kansas, although supplementary data outside the State may be used. TIME, Indefinite. BEGUN, July, 1915. PHASES COMPLETED, While no phases are definitely completed, publications show progress.

MARYLAND - Analysis of Maryland farms.

LEADERS, S. H. DeVault, Ray Hurley, Arthur Hackendorf, Paul Nystrom, and W. J. Basehore. OBJECTIVE, To determine the relative profitableness of types of farming in Maryland and factors affecting farm profits; to obtain data needed on which to base suggestions and recommendations for the more profitable organization and operation of farms. AREA COVERED, Piedmont Plateau Region and Eastern Shore of Maryland Region. TIME, 1928, 1929 and 1930. BEGUN, July 1, 1929. PHASES COMPLETED, Records obtained for two years; data tabulated, analyzed, and written up in the form of masters' theses. PERCENTAGE COMPLETED, Two-thirds. PROBABLE COMPLETION, 1932.

MARYLAND - Economic efficiency of the farm layout.

LEADERS, S. H. DeVault and Arthur Hamilton. OBJECTIVE, To measure the relative efficiency of farm layouts in different parts of Maryland. AREA COVERED, Northern Eastern Shore, Piedmont Plateau Region, and Southern Maryland Region. TIME, July, 1929 to July, 1932. BEGUN, July 1, 1929. PHASES COMPLETED, 129 farms studied, and drawings and layouts made. Report in form of master's thesis. PERCENTAGE COMPLETED, Two-thirds. PROBABLE COMPLETION, July, 1932. New farm layouts with suggested changes and recommendations will be made during the fiscal year, 1931-32, and given to each farmer who cooperated in this study.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - GENERAL

MICHIGAN - Farm budgets.

LEADER, F. T. Riddell. OBJECTIVE, To obtain information that will enable us to determine through farm budgets, the more profitable systems of farming. To obtain data that may be used in making profitable long and short time adjustments, the better to meet changes in economic conditions. AREA COVERED, Entire State. TIME, Indefinite. BEGUN, July 1, 1930. PHASES COMPLETED, Considerable data on feed and labor requirements and duties of farm machinery. PROBABLE COMPLETION, Indefinite.

MINNESOTA - A study of certain human factors in farm management.(Coop.B.A.E.)

LEADERS, George A. Pond, Carle C. Zimmerman, and Walter J. Roth. OBJECTIVE, To study the personal equation in farm management which is associated with various types of farm proprietorship and with various degrees of success in each type as follows: 1. To discover the relative importance of variations in the capacity of farmers as business organizers and managers as compared with other factors associated with profits or losses in farming. 2. To determine the relative importance in effective business administration of the farm of certain factors which may affect management such as education, native intelligence, habits of using market information, outlook reports, and the like. 3. To determine the relative importance of various human traits such as industry, interest in certain farm processes, diversity of attention, family life, etc., as they affect the success or failure in the proprietary functions. AREA COVERED, Six counties - Dodge, Freeborn, Goodhue, Rice, Steele, Waseca. TIME, Has been under way for 16 months. BEGUN, March 1, 1930. PHASES COMPLETED, A general study involving questionnaires and personal visits to 172 farmers, a general analysis of the data obtained, and a preliminary report covering tentative conclusions. PERCENTAGE COMPLETED, 50%.

MINNESOTA - A study of farm organization as affecting income on farms in northern Minnesota.

LEADERS, George A. Pond and S. B. Cleland. OBJECTIVE, To analyze the factors that contribute to success and to determine profitable systems of farming to be followed in northern Minnesota. To study the influence of accounting methods and results supplemented by detailed farm record and account studies formerly made in this section, outlook reports and other research data in planning profitable organization and readjustments for farms. AREA COVERED, Northern one-half of Minnesota. TIME, April 1, 1931 to March 31, 1934. BEGUN, April 1, 1931. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, March 31, 1934.

MINNESOTA - A study of the farm tractor in Minnesota.

Sub Project 1. Survey of farms operated by experienced tractor operators.

Sub Project 2. A continued study of the mechanical and economic phases of the performance of tractors in the hands of experienced tractor operators.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - GENERAL

Sub Project 3. A study of the performance of tractors and their effect on farms where no tractor was previously used.

LEADERS, George A. Pond and Arthur J. Schwantes. OBJECTIVE, 1. To determine mechanical and economic factors which contribute to the success or failure of the tractor on the farm. 2. The effect of the tractor on the farm organization. 3. The length of tractor life under varying conditions. 4. To what extent obsolescence is a factor in tractor depreciation. 5. To what extent the life of a tractor may be prolonged by systematic and timely repairing, and how soon major repairs are necessary on a tractor. 6. The adaptation of various types of tractors to type of farming and size of farm. AREA COVERED Steele, Waseca and Goodhue counties in southeastern Minnesota; Nobles, Jackson, Cottonwood, and Murray counties in southwestern Minnesota; and Polk, Norman, Marshall and Kittson counties in northwestern Minnesota. TIME, 1929-1939 inclusive. BEGUN, March, 1929. PHASES COMPLETED, Sub. Project 1. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, 1939.

MINNESOTA - A study of the organization of farms in the Red River Valley. (Coop. B. A. E.).

LEADER, George A. Pond. OBJECTIVE, To determine the unit requirements of labor, feeds, and the other factors of production used in producing crops and livestock commonly grown in the area studied; the kinds and amounts of the several crops and classes of livestock and the most profitable combination of them for farms in this area; and to study the most profitable methods of growing these crops and of feeding and handling these classes of livestock under the conditions prevailing in this section of the State. AREA COVERED, Polk County, Minnesota. TIME, March 1, 1926 to February 28, 1929. BEGUN, March 1, 1926. PHASES COMPLETED, All major phases are completed. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, 1932.

MINNESOTA - A study of the physical organization of the farmstead.

LEADER, L. B. Bassett. OBJECTIVE, To determine size and management of farmstead. AREA COVERED, Cokato, Windom and Owatonna, Minnesota. TIME, 1921-1932. BEGUN, September, 1921. PHASES COMPLETED, Ready to prepare manuscript. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, July, 1932.

MISSISSIPPI - Farm machinery and farm power study. (Coop. B.A.E., B.P.R., B.A.I)

LEADERS, Lewis E. Long and J. W. Carpenter, Jr. OBJECTIVE, To determine the relative economy of different sized animal and mechanical power units on the farm. AREA COVERED, The Yazoo-Mississippi Basin, Mississippi. TIME, One year. BEGUN, March, 1930. PHASES COMPLETED, Field Work, tabulation, analysis, and preparation of report. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, January, 1932.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - GENERAL

MISSOURI - The relation of farm improvements to earnings and value of farm land.

LEADER, O. R. Johnson, B. H. Frame and J. C. Wooley. OBJECTIVE, To study the part farm improvements play in earnings and value of farm lands. AREA COVERED, Three Missouri counties. TIME, 3 years. BEGUN, 1929 covering the farm year 1928. PHASES COMPLETED, First two years' data have been completed. PERCENTAGE COMPLETED, 66%. PROBABLE COMPLETION, 1933.

MONTANA - Study of the organization, land, labor and capital requirements and comparative advantages of a two-tractor type of mechanically operated farm.

LEADERS, M. L. Wilson and E. A. Starch. OBJECTIVE, To determine optimum combination of land and equipment, capital outlays and daily labor and job adjustments; relative advantages of various sized units. AREA COVERED, Nine areas typical of Montana agriculture. TIME, Five years or more. BEGUN, December 20, 1927. PHASES COMPLETED, Determination of effective combinations of land and equipment, cost analysis by jobs. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, January 1, 1934.

MONTANA - Study of the organization of dryland farms in southeastern Montana.

LEADERS, M. L. Wilson, V. D. Gilman and E. A. Starch. OBJECTIVE, To set up standard farm organization of predominating types of farms, preliminary information for land utilization projects. AREA COVERED, Eight counties in southeastern Montana. TIME, Three years. BEGUN, June, 1930. PHASES COMPLETED, Study of farm types and land classification. PERCENTAGE COMPLETED, 70%. PROBABLE COMPLETION, January 1, 1932.

MONTANA - Tests of hypothetical farm organization designed for areas in Montana in which previous studies have shown maladjustment in farm organization.

LEADERS, M. L. Wilson and E. A. Starch. OBJECTIVE, A study of specific hypothetical farm organization set-ups involving new combinations of the factors of production and recent advances in mechanical and biological technique. AREA COVERED, Farm land of Montana lying in the Great Plains area. TIME, Five years or more. BEGUN, January 1, 1927. PHASES COMPLETED, None. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, January 1, 1935.

MONTANA - Detailed study of farm organization and management of successful farms in Montana.

LEADER, M. L. Wilson. OBJECTIVE, Secure data on sequence of farm operations, detailed case data, illustrative material demonstrating economic principle of farm management. AREA COVERED, Montana. TIME, Five years. BEGUN, June 1, 1927. PHASES COMPLETED, Interpretation of farm accounts for farms. PERCENTAGE COMPLETED, 20%. PROBABLE COMPLETION, January 1, 1935.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - GENERAL

NEBRASKA - Farm management survey.

LEADER, H. C. Filley. OBJECTIVE, To obtain information upon the relative profit obtained under different systems of organizing the farm business in the various areas of the State. AREA COVERED, Entire State. TIME, 1918 to present. BEGUN, 1918. PHASES COMPLETED, Annual reports on farm account books each year. PROBABLE COMPLETION, This project will continue indefinitely.

NEVADA - Newlands project farm census.

LEADER, F. B. Headley. OBJECTIVE, Summarization of annual farm census taken on the Newlands Irrigation Project, to put this statistical material in available form and to study the adjustments made by the farmers each year in response to changing economic conditions. AREA COVERED, Newlands Project. BEGUN, January, 1930.

NEW MEXICO - A farm organization and related market outlet in the Middle Rio Grande Conservancy District.

LEADERS, A. L. Walker and P. W. Cockerill. OBJECTIVE, 1. To make an economic analysis of two or more representative irrigated farm areas with a view of securing data on types of farms, farm organization and management. 2. To make an analysis of consumer-demand and marketing practices in the immediate trade territory of the Middle Rio Grande Valley. AREA COVERED, Farm management studies in the vicinity of Albuquerque, New Mexico; Consumer-demand studies, Albuquerque and other cities. TIME, From fall of 1929 to June 1933 or 1934. BEGUN, Fall of 1929. PHASES COMPLETED, Two years of field work and one preliminary report issued. PERCENTAGE COMPLETED, 40%. PROBABLE COMPLETION, June 1933 or 1934.

NEW YORK CORNELL - A farm management survey of Tompkins and Livingston Counties, New York.

Sub Project 1. Livingston County Survey for 1928 and 1908 and comparison with 1918. Leader, S. W. Warren.

Sub Project 2. Tompkins County survey for 1927 and 1917 and comparison with 1907. Leader, E. G. Misner.

OBJECTIVE, To repeat the first farm management survey made in the United States on all the farms in the townships of Ithaca, Dryden, Danby, and Lansing, tracing the ownership of the farms and the history of farmers during the intervening period, with reference to the important business factors affecting the profits of farming at the present time and changes in conditions. Data on farm receipts and expenses to be obtained by personal visits. Work to be completed during present year.

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NEW YORK CORNELL - Studies of the relation of weather to the production and price of farm products, Corn.

LEADER, E. G. Misner. PROGRESS, In process of publication.

NEW YORK CORNELL - Survey in Newfane-Olcott area, Niagara County, 1913-1929.

LEADER, G. P. Scoville. PROGRESS, Some of results published in "The Apple Situation", Cornell Extension Bulletin 172.

NEW YORK CORNELL - Multiple correlation analysis as applied to farm management data.

LEADER, S. W. Warren.

NORTH CAROLINA - A study of organization and management of farms operated by cropper labor.

LEADER, G. W. Forster. OBJECTIVE, To study in detail the organization and management of approximately 100 farms which are operated exclusively by cropper labor, and on the basis of the information obtained develop plans for improving the organization and management of such farms. AREA COVERED, Coastal Plain of North Carolina. TIME, Four years. BEGUN, 1927. PHASES COMPLETED, One bulletin on financial aspects of the study prepared by H. H. Wooten. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1932.

NORTH DAKOTA - Trend of agriculture in North Dakota by counties and types of farming.

LEADERS, Rex E. Willard and H. E. Ratcliffe. OBJECTIVE, To portray trend of agriculture in various parts of State; to continue compilation of data in North Dakota Experiment Station Bulletins 183 and 212; to formulate farm management and farm organization plans for various sections of the State. AREA COVERED, State of North Dakota. TIME, Continuous. BEGUN, 1925. PHASES COMPLETED, Bulletins 183 and 212 and U. S. D. A.

NORTH DAKOTA - A study of farm organization in the Black Earth area of North Dakota. (Coop. with U. S. D. A.)

LEADERS, Rex E. Willard, H. E. Ratcliffe and H. R. Danielson. OBJECTIVE, To determine effect of change in organization on farm income; combinations of crops and stock that are most profitable; and if net returns can be increased by efficient management. AREA COVERED, Eastern 1/3 of North Dakota. TIME, Five years. BEGUN, 1930. PHASES COMPLETED, First year. PROBABLE COMPLETION, 1935.

PENNSYLVANIA - A study of farm practices and farm management in Central Pennsylvania and of their relation to income.

LEADERS, L. E. McCord and F. P. Weaver. OBJECTIVE, To study farm management and farm practices in Central Pennsylvania with a view to determining

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - GENERAL

the relation between certain types of farming, and certain management practices and the returns to farmers for their effort. AREA COVERED, Mostly Centre County. TIME, At least three years. BEGUN, Summer of 1931. PHASES COMPLETED, Plans and part of first year's survey. PERCENTAGE COMPLETED, Just well begun. PROBABLE COMPLETION, 1935.

RHODE ISLAND - A study of the business organization of farms in Rhode Island.

LEADER, J. L. Tennant. OBJECTIVE, To obtain information concerning the organization and management of farms in Rhode Island. AREA COVERED, The State. TIME, Began 1928. Part of State covered each year with possibility of repeating work in some sections. BEGUN, 1928. PHASES COMPLETED, Study of practices on Rhode Island dairy farms. Farm management survey of 266 farms in 9 sections of State. PROBABLE COMPLETION, Indefinite.

SOUTH CAROLINA - Farm management study of Orangeburg area.

LEADERS, W. C. Jensen, B. A. Russell and C. Gunnells. OBJECTIVE, Determine more profitable systems of farming and methods of production. AREA COVERED, Orangeburg County. TIME, 1928 - 1931. BEGUN, 1928. PHASES COMPLETED, 1928 records and some 1931 records. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, 1931.

SOUTH DAKOTA - A study of farm organization and management in types-of-farming Area VI (South Dakota Bulletin 238).

LEADER, C. M. Hampson. OBJECTIVE, To obtain detailed data on certain farms in the area for case study. AREA COVERED, One county in north central South Dakota. TIME, One year. BEGUN, December, 1930. PHASES COMPLETED, Data all collected. PERCENTAGE COMPLETED, Data being tabulated and analyzed. PROBABLE COMPLETION, March, 1932.

SOUTH DAKOTA - Large-scale farming in South Dakota.

LEADER, C. M. Hampson. OBJECTIVE, To secure a history and continuous record of the development and management of large-scale farming in the State. AREA COVERED, Whole State. TIME, Indefinite. BEGUN, July, 1930. PHASES COMPLETED, Names secured of operators of large farms in all counties of the State. PROBABLE COMPLETION, Continuous with progress reports.

SOUTH DAKOTA - A study of the elements of risk and uncertainty arising from natural and economic factors which affect the agricultural production of the various farming systems conducted in the several types of farming areas in South Dakota.

LEADER, Snerman E. Johnson. OBJECTIVE, To determine and classify the various causes of risk in agricultural production in the areas studied, to evaluate the importance of each cause, and to develop if possible

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - GENERAL

further means of shifting, meeting or eliminating risk and uncertainty in production. AREA COVERED, Project will be limited to one type-of-farming area of the State for the initial work and then gradually extended to other areas as time and funds permit. TIME, Three to five years or longer. BEGUN, November 1, 1930. PHASES COMPLETED, Bibliography and some collection of production and price data. PERCENTAGE COMPLETED, Small. PROBABLE COMPLETION, 1936.

TEXAS - A study of the organization and operation of farms in east Texas.

LEADER, C. A. Bonnen. OBJECTIVE, To determine good systems of farming and desirable adjustments between and within enterprises in the area. AREA COVERED, Piney Woods farming area. TIME, Four years. BEGUN, January, 1928. PHASES COMPLETED, Data collected and manuscript in preparation. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, December, 1931.

VIRGINIA - A study of farm organization and management in Grayson County, Virginia.

LEADERS, J. J. Vernon and H. W. Hawthorne. OBJECTIVE, To discover the factors affecting the successful organization and management of Grayson County farms. AREA COVERED, Grayson County, Virginia. TIME, June 1, 1931 until completed. BEGUN, June 1, 1931. PHASES COMPLETED, Field work nearly completed. PERCENTAGE COMPLETED 30%. PROBABLE COMPLETION, July 1, 1932.

WASHINGTON - Development of profitable set-ups for types of irrigation farming adapted to the non-orchard areas of the Yakima Valley.

LEADER, E. F. Landerholm. OBJECTIVE. 1. To determine the enterprises and the types of farming that are best adapted to the physical and the market conditions and market outlets of this area. 2. To secure information for developing farm plans which are likely to give best results under the conditions prevailing in the area and for adjusting these plans to meet changed price relationships as they arise. AREA COVERED, Pullman, Washington, after field data are gathered in the Yakima Valley. TIME, Two years. BEGUN, February 21, 1930. PHASES COMPLETED, Approximately two-thirds of the field work. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, September 1, 1932.

WISCONSIN - A study of farm organization and operation.

LEADERS, P. E. McHall and W. J. Roth. OBJECTIVE, Study effective utilization of farmers resources in organization and operation of LaCrosse County farms. AREA COVERED, Non-glaciated area of Wisconsin. TIME, 1930-32. BEGUN, September 1, 1930. PHASES COMPLETED, Field work for one year. PERCENTAGE COMPLETED, 1/3. PROBABLE COMPLETION, July 1, 1933.

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WYOMING - An economic study of the organization, management and returns on our irrigated and dry-land farms in Goshen County.

LEADERS, A. F. Vass and Harry Pearson. OBJECTIVE, To study different types and methods of farming used by farmers, and areas under investigation. To determine the most important factors influencing profits and losses on the individual farms, and suggest methods for their improvement. AREA COVERED, Goshen County, Wyoming. TIME, 3 years. BEGUN, January 1, 1930. PHASES COMPLETED, Nearly all the field work except some follow-up work. The office work and the analysis of data is also near completion. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, July, 1932.

AGRICULTURAL ECONOMICS

FARM MANAGEMENT - ENTERPRISES - LIVESTOCK

BUREAU OF AGRICULTURAL ECONOMICS

An economic study of beef cattle production in the Appalachian Region.

LEADER, M. R. Cooper. COOPERATION, B. A. I., West Virginia Agricultural Experiment Station, and Virginia Agricultural Experiment Station. BEGUN, October 1, 1928. PROBABLE COMPLETION, May 1, 1931.

A study of apiary operation and management in the intermountain and white clover regions.

LEADER, R. S. Washburn. COOPERATION, Bureau of Entomology and University of Minnesota. OBJECTIVE, This project started with a study of beekeeping in the Intermountain States; has developed to include beekeeping in the Central and Eastern White Clover States; and probably will be further expanded to include work in the Pacific Coast States. BEGUN, October 1, 1929. PROBABLE COMPLETION, June 30, 1935.

The place of pasture in Iowa farming types.

LEADER, E. B. Hurd. COOPERATION, Iowa Agricultural Experiment Station. BEGUN, July 1, 1930. PROBABLE COMPLETION, December 31, 1931.

A study of ranch organization and management in the North Park and Saratoga Valley areas of Colorado and Wyoming.

LEADERS, C. L. Holmes, M. R. Cooper, and Martin Reinholt. COOPERATION, B. A. I., Colorado and Wyoming Agricultural Experiment Stations. BEGUN, January 1, 1929. PROBABLE COMPLETION, July 1, 1932.

A study of the causes of the wide variation in the number of range sheep in Montana and the organization and the management of the range sheep production.

LEADERS, C. L. Holmes and M. R. Cooper. COOPERATION, B. A. I., and Montana Agricultural Experiment Station. BEGUN, May 1, 1930. PROBABLE COMPLETION, June 30, 1933.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - LIVESTOCK

Ranch organization and management in western North Dakota.

LEADERS, C. L. Holmes, M. R. Cooper and M. B. Johnson. COOPERATION, North Dakota Agricultural Experiment Station and B. A. I. BEGUN, July 15, 1930. PROBABLE COMPLETION, June 30, 1933.

Ranch organization and management in the Edwards Plateau area of Texas.

LEADERS, C. L. Holmes and M. R. Cooper. COOPERATION, Texas Agricultural Experiment Station, Texas Extension Service, and B. A. I. BEGUN, July 1, 1930. PROBABLE COMPLETION, 1932.

A study of the range livestock industry in the southwest range area of New Mexico and Arizona.

LEADERS, C. L. Holmes and M. R. Cooper. COOPERATION, Arizona and New Mexico Agricultural Experiment Stations, and B. A. I. BEGUN, January 1, 1927. PROBABLE COMPLETION, December 31, 1931.

Economic study of farm organization in the peanut areas of Alabama and Georgia with reference to hog production.

LEADERS, Oscar Steanson and Henry T. Wingate. COOPERATION, Alabama and Georgia Agricultural Experiment Stations. BEGUN, April 1, 1927. PROBABLE COMPLETION, June 30, 1931.

STATE AGRICULTURAL EXPERIMENT STATIONS

ALABAMA - An economic study of the organization of farms in the peanut area of Alabama with reference to hog production.

LEADER, J. D. Pope. OBJECTIVE, To determine the factors affecting the production of hogs and the organization under which hogs are included profitably in the farming system of the peanut area of Alabama. AREA COVERED, One hundred farms in the peanut area of southeast Alabama. TIME, 1927 and 1928. BEGUN, March, 1927. PHASES COMPLETED, Field work, editing and checking, analysis of data for farms in Georgia and Alabama in combination. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, 1932.

MICHIGAN - Study of relation between practices, costs, and gains in lamb feeding.

LEADER, K. T. Wright. OBJECTIVE, To determine the total costs, variations in costs and major factors affecting variations in costs in lamb feeding in Michigan. AREA COVERED, Southern Michigan. TIME, Three years. BEGUN, December 1, 1930. PHASES COMPLETED, One year's results. PERCENTAGE COMPLETED, 33%. PROBABLE COMPLETION, 1933.

MINNESOTA - An accounting study of farm organization for beef cattle production.

LEADERS, George A. Pond, W. H. Peters, and W. J. Roth. OBJECTIVE, 1. To determine the type of farm organization best suited to beef production

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - LIVESTOCK

under the conditions prevailing in southwestern Minnesota and to compare the characteristic methods and types of production in this area. 2. To determine the factors of cost involved in the production of crops and livestock in this area. AREA COVERED, Rock and Nobles counties, Minnesota. TIME, March 1, 1929. BEGUN, March 1, 1929. PHASES COMPLETED, 2-1/2 years of field work completed. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, 1932.

MONTANA - Economic study of livestock feed in relation to low priced wheat in Montana.

LEADERS, M. H. Saunderson and Louis Vinke. OBJECTIVE, To determine economic conditions under which low priced wheat can be fed to Montana livestock. AREA COVERED, Wheat producing areas of Montana. BEGUN, March 15, 1931. PHASES COMPLETED, Results of 1930-1931 feeding period. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, March 15, 1933.

MONTANA - A study of the economic causes for the fluctuating cattle population in Montana.

LEADERS, M. L. Wilson, M. H. Saunderson and Louis Vinke. OBJECTIVE, To determine the factors affecting the utilization of range resources as between cattle and sheep in Montana. AREA COVERED, Plains and mountain grazing area of Montana. TIME, Between 3 and 5 years. BEGUN, May 1, 1929. PHASES COMPLETED, Field data for 1929 and 1930 complete, partial analysis made for 1929 preliminary report. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, January 1, 1933.

MONTANA - A study of the economic causes for the wide fluctuation of range sheep population in Montana.

LEADERS, M. L. Wilson, M. H. Saunderson, and H. W. Vaughan. OBJECTIVE, To determine the time elements, degree of change, and economic causes for the fluctuation in the range sheep population in Montana. AREA COVERED, Plains and mountain grazing area of Montana. TIME, Between 3 and 5 years. BEGUN, May 1, 1929. PHASES COMPLETED, Field data for years 1928, 1929 and 1930 complete, partial analysis made for preliminary report. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, January 1, 1933.

NEW MEXICO - Economics of sheep production in New Mexico.

LEADERS, A. L. Walker, J. L. Lantow and K. P. Pickrell. OBJECTIVE, To determine the importance of various factors affecting range sheep production in New Mexico. AREA COVERED, Western New Mexico. TIME, January 1, 1927. BEGUN, February, 1927. PHASES COMPLETED, Field work completed and a manuscript is in the process of being prepared. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, June, 1932.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - LIVESTOCK

NORTH DAKOTA - A study of the range livestock industry in the northern Great Plains area. (Coop. with B. A. I., B. A. E., and North Dakota Agricultural Extension Division).

LEADERS, Rex E. Willard and M. B. Johnson. OBJECTIVE, Ownership and tenure of range land - best forms of ranch organization - make trials of types of organization already determined. AREA COVERED, South and west Missouri River in North Dakota. TIME, 5 years. BEGUN, 1930. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, 1935.

PENNSYLVANIA - An economic study of the fine wool sheep industry in southwestern Pennsylvania.

LEADERS, J. E. McCord and F. P. Weaver. OBJECTIVE, To study the cost of producing sheep and wool in the fine wool territory of southwest Pennsylvania, and the methods by which costs might be reduced. AREA COVERED, Washington, Greene, Mercer and Lawrence Counties in Pennsylvania and northern West Virginia and southwest Ohio. The latter in cooperation with the experiment stations in those States. TIME, 4 years. BEGUN, Fall of 1929. PHASES COMPLETED, Data for one year has been collected and summarized and collection for second year is under way. PERCENTAGE COMPLETED, 40%. PROBABLE COMPLETION, 1933.

SOUTH CAROLINA - Marketing South Carolina hogs.

LEADERS, W. C. Jensen and M. Guin. OBJECTIVE, Determine seasonal movement of hogs and prices, nature of markets and practices in marketing. AREA COVERED, South Carolina areas of production and main markets for South Carolina hogs. TIME, 1930-31. BEGUN, September, 1930. PHASES COMPLETED, Study of two markets and compilation of part of statistics. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, 1931.

SOUTH DAKOTA - Cattle ranch management in northwestern South Dakota.

LEADER, C. M. Hampson. OBJECTIVE, To secure a continuous record of ranch management over a period of ten or more years. AREA COVERED, Three counties in the range area of the State. TIME, Ten or more years. BEGUN, October, 1930. PHASES COMPLETED, Data for one-half year collected.

TEXAS - A study of range management in the Edwards Plateau grazing area.

LEADER, C. A. Bonnen. OBJECTIVE, To make special study of the effect of different methods of operation on the more important factors affecting ranch incomes and to supplement the data already secured and partially reported in Bulletin 413. AREA COVERED, Edwards Plateau grazing area. (Type-of-farming area No. 7). TIME, Three to five years. BEGUN, September, 1930. PHASES COMPLETED, Organization only. PERCENTAGE COMPLETED, 15%. PROBABLE COMPLETION, 1933.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - LIVESTOCK

WEST VIRGINIA - Status, trends, place and outlook of fine wool sheep industry in the northern part of West Virginia.

LEADER, R. O. Stelzer. OBJECTIVE, To determine for the territory covered the cost of production, returns, methods of handling, trends in production, the place and the outlook, for fine wool sheep in northern West Virginia farms. AREA COVERED, Hancock, Brooke, Ohio, Marshall, Whetsel, Tyler, Monongalia and Marion Counties. TIME, Three years. BEGUN, October, 1929. PHASES COMPLETED, First year's summary. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1932.

WYOMING - A study of the range sheep industry in Wyoming.

LEADERS, A. F. Vass, and Harry Pearson. OBJECTIVE, 1. To determine for Wyoming the economic effects on sheep industry of existing practices in the industry. Factors considered will be: a. Summer and winter range conditions; b. Climatic factors such as droughts and severe storms; c. Losses of lambs and aged sheep; d. Methods of feeding, breeding, grazing, grading and shipping. AREA COVERED, Entire State. TIME, 10 years. BEGUN, April 1, 1926. PHASES COMPLETED, A study of the Red Desert Area was completed and published in July, 1927. The field work on 2 other areas, the central and north central, has been completed. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1936.

WYOMING - An economic study of the production of cattle on the Mountain Valley Ranches.

LEADERS, A. F. Vass, Harry Pearson. OBJECTIVE, To study the range cattle industry as it exists on our mountain valley ranches, where the cattle are run on the mountain ranges during the summer and fed on the valley ranches during winter. AREA COVERED, The valleys in the high mountain areas of Wyoming, principally in Carbon, Teton, Lincoln, Sublette, Fremont, Hot Springs, and Park Counties. TIME, 8 years. BEGUN, August 2, 1927. PHASES COMPLETED, All the field work of this project has been completed except the final winding up of a cost account route in Carbon County. Much of the computing and other office work has been done. PERCENTAGE COMPLETED, 85%. PROBABLE COMPLETION, July, 1935.

AGRICULTURAL ECONOMICS

FARM MANAGEMENT - ENTERPRISES - DAIRYING

BUREAU OF AGRICULTURAL ECONOMICS

Efficiency studies in dairy farming in New Hampshire.

LEADER, Emil Rauchenstein. COOPERATION, New Hampshire Agricultural Experiment Station. BEGUN, April 1, 1930. PROBABLE COMPLETION, December 1, 1932.

A study of dairy cow replacements and systems of dairy farming.

LEADER, Emil Rauchenstein. COOPERATION, New Jersey Agricultural Experiment Station. BEGUN, December 1, 1930. PROBABLE COMPLETION, December 1, 1931.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - DAIRYING

STATE AGRICULTURAL EXPERIMENT STATIONS

FLORIDA - An economic study of dairy farming in Florida.

LEADER, Bruce McKinley. OBJECTIVE, 1. The economic status of the Florida dairy farmer. 2. The costs of and returns from milk production. 3. The possibilities for decreasing the costs on Florida dairy farms by pasture improvement, more home produced feeds and other methods. AREA COVERED, Commercial dairies supplying milk to six Florida cities, namely, Jacksonville, Miami, Tampa, St. Petersburg, Orlando and Ocala. TIME, The year ending December, 1927. BEGUN, December, 1927. PHASES COMPLETED, In manuscript. PERCENTAGE COMPLETED, In manuscript. PROBABLE COMPLETION, 1931 or 1932.

MAINE - An economic study of the dairy industry in Maine.

LEADERS, Charles H. Merchant and George F. Dow. OBJECTIVE, 1. Costs and returns in producing milk, raising heifers, and keeping herd bulls. 2. Factors and their influence that affects these costs and returns. 3. Organization and management of Maine dairy farms. 4. Production, marketing, and utilization of dairy products in Maine. AREA COVERED, Numbers 1, 2, and 3, under objectives based on 178 records representing the dairy sections of Oxford, Franklin, Somerset, Piscataquis, Penobscot, and Waldo Counties. Number 4 under objectives statewide, including the total of all dairy products in the State, secured from each milk or cream dealer in Maine or from the State Department of Agriculture. TIME, Was started July 1, 1928 and is still active. BEGUN, Numbers 1, 2, and 3 under objectives were started July 1, 1928. Number 4 under objectives was started July 1, 1929 with additional information in 1930 and 1931. PHASES COMPLETED, Numbers 1 and 2 under objectives practically all completed but not yet published. PERCENTAGE COMPLETED, 40%. PROBABLE COMPLETION, June 30, 1934.

MASSACHUSETTS - A study of enterprise relationships and farm organizations on selected dairy farms in western Massachusetts.

LEADERS, James A. Foord and R. L. Mighell. OBJECTIVE, To obtain basic data on dairying and other enterprises which can be used in planning the most profitable farm organizations under varying economic conditions. AREA COVERED, Western Massachusetts. BEGUN, September, 1928. PHASES COMPLETED, Accounts for year 1929 on 19 farms. One bulletin No. 275. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, September 1, 1932.

NEW HAMPSHIRE - Efficiency studies in dairy farming in New Hampshire.

LEADERS, H. C. Woodworth, M. F. Abell and Emil Rauchenstein of U. S. D. A. OBJECTIVE, To study the fundamental causes that contribute to success or failure in dairy farming. AREA COVERED, Grafton County, Woodsville area. TIME, 1 year. BEGUN, January 1, 1931. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, January 1933. (Coop. U. S. D. A.)

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - DAIRYING

NEW HAMPSHIRE - Wholesale milk farms study.

LEADER, M. G. Eastman. OBJECTIVE, A study of organization and management of specialized milk farms. AREA COVERED, Grafton County. TIME, April, 1929 to April, 1930. BEGUN, March, 1930. PHASES COMPLETED, Field work and tabulation. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, January, 1932.

NORTH CAROLINA - A study of dairy cattle as a supplementary enterprise to cotton farming in the Piedmont section of North Carolina.

LEADERS, C. D. Grinnells, R. H. Rogers and C. B. Williams. OBJECTIVE, To secure definite information on supplementary cotton enterprises. AREA COVERED, Piedmont area. TIME, A ten year study. BEGUN, 1928. PHASES COMPLETED, Records made and analyzed for 1929 and 1930. PERCENTAGE COMPLETED, 20%. PROBABLE COMPLETION, 1938.

AGRICULTURAL ECONOMICS

FARM MANAGEMENT - ENTERPRISES - POULTRY

BUREAU OF AGRICULTURAL ECONOMICS

Economic factors affecting the production and marketing of poultry products, in Utah.

LEADER, R. M. Clawson. COOPERATION, Utah Agricultural College. BEGUN, September 15, 1929. PROBABLE COMPLETION, January 1, 1932.

STATE AGRICULTURAL EXPERIMENT STATIONS

ALABAMA - An economic study of poultry enterprises on cotton farms.

LEADER, C. G. Garman. OBJECTIVE, To measure the economic advantages of the poultry enterprise as conducted on cotton farms in Marshall and DeKalb Counties, Alabama. AREA COVERED, 100 farms in Marshall and DeKalb Counties, Alabama. TIME, 1927, 1928 and 1929. BEGUN, 1927. PHASES COMPLETED, Field work. Editing and checking. Analysis of factors affecting labor income. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, July 1, 1932.

IDAHO - Poultry management.

LEADER, C. O. Youngstrom. OBJECTIVE, To study the efficiency of various methods of poultry management, and to secure enterprise requirements. AREA COVERED, Six or eight counties of Idaho. BEGUN, September 1, 1930. PHASES COMPLETED, Almost one year of records. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, December 31, 1934.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - POULTRY

KANSAS - The economics of the poultry industry in Kansas.

LEADER, Morris Evans. OBJECTIVE, To study the factors affecting the production, marketing, and consumption of poultry and poultry products produced in Kansas. AREA COVERED, Principally the State of Kansas but price and certain other data may include other areas to a limited extent. TIME, October 1, 1921. BEGUN, 1922. PHASES COMPLETED, Cost studies of farm flocks. Effect of size of farm flock on various factors. Trends in poultry population and production. Distribution of poultry throughout the State. Source of poultry on Kansas farms, and disposal of poultry and eggs. PERCENTAGE COMPLETED, Indefinite. PROBABLE COMPLETION, Indefinite.

NEW HAMPSHIRE - Poultry farm studies.

LEADERS, H. C. Woodworth and F. D. Reed. OBJECTIVE, To study farm organization and management problems on 25 commercial poultry farms. AREA COVERED, Southern New Hampshire. TIME, September 1929 to September 1930. BEGUN, July, 1929. PHASES COMPLETED, Field work practically completed. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, January, 1932.

NEW JERSEY - Economic study of the poultry industry.

LEADER, Allen G. Waller. OBJECTIVE, To determine the status of the poultry enterprise in New Jersey farming. AREA COVERED, Statewide. TIME, The poultry business is of such importance in New Jersey that this is a current project in the sense that information on some phase is obtained or analyzed nearly every year. BEGUN, 1916.

VIRGINIA - An economic study of poultry farming in Virginia.

LEADERS, J. L. Maxton and P. L. Fletcher. OBJECTIVE, To determine the factors affecting the costs of producing poultry and eggs under Virginia conditions. Also the factors affecting successful poultry farm management. AREA COVERED, Eastern part of Virginia. BEGUN, July 1, 1931. PHASES COMPLETED, Blanks prepared and a preliminary survey made to determine where study will be conducted. PROBABLE COMPLETION, July 1, 1932.

WEST VIRGINIA - Poultry as a farm enterprise.

LEADER, R. O. Stelzer. OBJECTIVE, To determine the costs, profits, and best practices of producing poultry and its products under varying farm conditions, and to find out how the poultry enterprise fits into the whole farm business. AREA COVERED, Counties served by the Poultry Packing Plant at Parkersburg, West Virginia. BEGUN, January 1, 1931. PHASES COMPLETED, 50 farmers have been started in keeping records. PERCENTAGE COMPLETED, Just begun. PROBABLE COMPLETION, 1933.

AGRICULTURAL ECONOMICS

FARM MANAGEMENT - ENTERPRISES - FRUITS AND VEGETABLES

BUREAU OF AGRICULTURAL ECONOMICS

An economic study of cucumber farming in Florida.

LEADERS, M. R. Cooper and H. W. Hawthorne. COOPERATION, Florida College of Agriculture. BEGUN, November 1, 1930. PROBABLE COMPLETION, June 30, 1931.

A study of the apple industry of the United States.

LEADERS, M. R. Cooper and W. H. Youngman. COOPERATION, Division of C. & L. E. and Division of F. & V., B. A. E. BEGUN, January 1, 1927. PROBABLE COMPLETION, January 1, 1932.

A study of the place of the orchard in the organization of the farm in Cumberland-Shenandoah Region.

LEADERS, M. R. Cooper and C. R. Swinson. COOPERATION, Virginia Polytechnical Institute, West Virginia and Pennsylvania Agricultural Experiment Stations. BEGUN, September 6, 1923. PROBABLE COMPLETION, December 31, 1932.

An economic study of the Eastern grape situation.

LEADERS, M. R. Cooper and G. F. Scoville. COOPERATION, Arkansas, Missouri, Michigan, and Pennsylvania Agricultural Experiment Stations. Also New York Cornell University. BEGUN, April 1, 1929. PROBABLE COMPLETION, October, 1931.

STATE AGRICULTURAL EXPERIMENT STATIONS

ARKANSAS - Study of small fruits and vegetables as supplementary crops on Arkansas farms.

LEADERS, C. O. Brannen and Orville J. Hall. OBJECTIVE, To study production requirements including costs of shipping, transportation, and selling of small fruits and vegetables. AREA COVERED, Area of production for each commodity. TIME, Indefinite. BEGUN, 1926. PHASES COMPLETED, Peaches, strawberries, apples, radishes, tomatoes and grapes. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, Indefinite.

COLORADO - An economic study of the peach industry in Colorado.

LEADER, R. T. Burdick. OBJECTIVE, For the purpose of ascertaining production costs in a nation-wide analysis of this phase. Subsequent work has included completed farm organization data so that we might consider the factors which influence profits in the production of peaches. AREA COVERED, Palisade district near Grand Junction, Colorado, also Orchard Mesa in same region. TIME, Seven years. BEGUN, 1924. PHASES COMPLETED, Cost of production phase, also labor and material requirements of enterprise. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, Within two years.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - FRUITS AND VEGETABLES

COLORADO - An economic study of the apple industry in Colorado.

LEADER, L. A. Moorhouse. OBJECTIVE, The purpose in conducting this investigation is to determine the relative importance of the different sources of the farm income and at the same time to ascertain the types of farm organization which have proven to be successful under the conditions which have obtained in this section during more recent years. AREA COVERED, Apple producing districts on the western slope. TIME, 4 years. BEGUN, 1927. PHASES COMPLETED, Certain cost of production data with respect to apples. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 2 or 3 years.

FLORIDA - A study of Florida truck crop competition.

LEADERS, C. V. Noble and M. A. Brooker. OBJECTIVE, To determine a logical truck crop production program for Florida growers. AREA COVERED, Car-lot movement of each Florida truck crop by weeks and the competition each week from each State and importing country. Also, the weekly competition of each Florida truck crop between the counties of the State. TIME, Six seasons 1924-25 to 1929-30, inclusive, for inter-State study. The season 1928-29 for the intra-State study. BEGUN, December, 1928. PHASES COMPLETED, Completed. PROBABLE COMPLETION, 1931.

MICHIGAN - Cherry orchards survey.

LEADER, C. A. Scholl. OBJECTIVE, Survey of distribution, age, and condition of bearing and non-bearing cherry trees in State, as basis for accurate estimate of production for future years, to which canning and marketing programs must be adjusted. AREA COVERED, 12 counties in western Michigan, (5,600 orchards). TIME, 1930. BEGUN, June, 1930. PHASES COMPLETED, Field work completed (October, 1930) - Data compiled and summarized. Data in process of assembly and interpretation for publication, awaiting certain census releases. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, November, 1931.

MICHIGAN - Farm management methods in the bean areas in Michigan.

LEADER, K. T. Wright. OBJECTIVE, To ascertain the relative importance of the different factors that make bean production under Michigan conditions successful or unsuccessful. AREA COVERED, Bean areas of Michigan. TIME, Originally three years but it may be extended to four. BEGUN, Feb. 1, 1929. PHASES COMPLETED, Two years results. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1933.

NEW HAMPSHIRE - Fruit farm studies.

LEADERS, H. C. Woodworth and G. F. Potter. OBJECTIVE, To study farm organization and management problems on commercial fruit farms. AREA COVERED,

AGRICULTURAL ECONOMICS -- FARM MANAGEMENT -- FRUITS AND VEGETABLES

Southern New Hampshire. TIME, 3 years, 1926, 1927, and 1928. BEGUN, May, 1926. PHASES COMPLETED, Field work and enterprise study. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, January, 1933.

NEW JERSEY -- Economic study of the peach industry.

LEADER, Allen G. Waller. OBJECTIVE, To determine the status of the peach industry in New Jersey. AREA COVERED, South Jersey fruit area. TIME, 1925. BEGUN, 1925. PHASES COMPLETED, Cost of production and certain statistical information. PERCENTAGE COMPLETED, 75%.

NEW JERSEY -- Economic study of the apple industry.

LEADER, Allen G. Waller. OBJECTIVE, To determine the status of the apple industry in New Jersey. AREA COVERED, Burlington and Monmouth counties. BEGUN, 1926. PHASES COMPLETED, Five years' farm management survey and two years' cost of production survey together with certain statistical data. PERCENTAGE COMPLETED, 50%.

NEW YORK CORNELL -- Economic studies of the production and marketing of apples, grapes, potatoes, lettuce, onions, cabbage, honey, and other farm products.

LEADERS, M. P. Rasmussen, L. Spencer, G. P. Scoville, W. I. Myers, and T. E. LaMont. OBJECTIVE, To provide a basis upon which New York State producers of these products may make plans for future constructive development through: 1. An analysis of markets within and outside the State. 2. Demand and prices for different types and varieties. 3. Competition between types and regions. 4. Probable shifts in sources of supply for each product. 6. Consumption requirements of typical areas with varying trade conditions. 7. Costs of producing each product in New York and competing areas. 8. Systems of farming that will be most profitable over a period of years. Progress has already been made in a study of the distribution of fruits and vegetables by wholesalers and jobbers, apple varieties, prices, yields and acreages, grape marketing, honey, lettuce, onions, and potatoes.

NORTH CAROLINA -- A study of peach orchard management.

LEADERS, G. W. Forster and R. H. Rogers. OBJECTIVE, To note growers reaction to price and crop conditions as reflected in orchard management. AREA COVERED, Sandhill area. TIME, A ten-year study. BEGUN, 1928. PHASES COMPLETED, Three farm business surveys made on about 40 farms. PERCENTAGE COMPLETED, 40%. PROBABLE COMPLETION, 1938.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - FRUITS AND VEGETABLES

OREGON - An economic study of the cherry industry in Oregon.

LEADERS, G. L. Sulerud and M. N. Nelson. OBJECTIVE, Assemble, analyze and interpret all facts available relating to the present situation and outlook for the cherry industry in Oregon. AREA COVERED, Oregon especially, also outside areas competing with this State. TIME, July, 1931 to September 15, 1932. BEGUN, July, 1931. PHASES COMPLETED, Just under way, field work started; statistical information sources being surveyed. PROBABLE COMPLETION, September 15, 1932.

PENNSYLVANIA - Orchard management and the place of orchards in the farm organization of the Cumberland-Shenandoah region.

LEADERS, F. P. Weaver and J. E. McCord. OBJECTIVE, To study costs of production, cultural practices, methods of harvesting and other factors which contribute to the success of the apple industry in the Cumberland-Shenandoah region. AREA COVERED, The Cumberland-Shenandoah sections of Pennsylvania, West Virginia, and Virginia. TIME, Three years of field study. BEGUN, January, 1929. PHASES COMPLETED, Data covering 2-1/2 years have been collected and the first two years summarized. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, 1932.

VIRGINIA - A study of the organization and management of the apple orchard and of the factors which determine the place of the apple orchard in the organization of the farm.

LEADERS, H. N. Young and C. J. Blair. OBJECTIVE, To discover the factors which influence the successful organization and management of the apple orchard and the farm which has the apple orchard. AREA COVERED, The Shenandoah Valley in Virginia. BEGUN, 1926. PHASES COMPLETED, Factors influencing yield. Marketing. PERCENTAGE COMPLETED, 67%. PROBABLE COMPLETION, July 1, 1932.

WEST VIRGINIA - Economics of the apple industry in the Cumberland-Shenandoah.

LEADER, A. J. Dadisman. OBJECTIVE, To make a study of the condition of the apple industry in Berkeley and Jefferson Counties and to indicate such adjustment in cultural and marketing practice as may be deemed necessary to enable it to meet competition most effectively. AREA COVERED, Berkeley and Jefferson Counties. TIME, Six years. BEGUN, July 12, 1926. PHASES COMPLETED, 1. Conditions necessary for a crop of fruit. 2. Marketing. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, July 1, 1932.

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FARM MANAGEMENT - ENTERPRISES - FIELD CROPS

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An economic study of the pecan industry.

LEADERS, R. R. Pailthorp, S. A. Jones, M. R. Cooper, Paul Koenig, L. A. Wheeler, R. S. Washburn, B. H. Thibodeaux, H. E. Rutland, and J. W. Park. COOPERATION, Division of C. and L. E., Division of F. M. and C., Division of S. and H. R., B. A. E.; and Mississippi, Louisiana, Georgia, Florida, and Alabama Agricultural Experiment Stations. BEGUN, December, 1928. PROBABLE COMPLETION, July, 1931. Mimeographed report on marketing issued. Bulletin being written to include a discussion of all phases of the study.

Economic study of potato production in Virginia.

LEADERS, H. T. Wingate and E. Rauchenstein. COOPERATION, Virginia Agricultural Experiment Station. BEGUN, July 1, 1929. PROBABLE COMPLETION, July 1, 1932.

Organization and management of tobacco farms for better profit.

LEADER, A. P. Brodell. COOPERATION, Virginia Agricultural Experiment Station. BEGUN, April 1, 1925. PROBABLE COMPLETION, Continued study.

Farm business study by means of account books. (Tennessee).

LEADER, H. W. Hawthorne. COOPERATION, Extension Service, U. S. D. A. and Tennessee Agricultural Experiment Station. BEGUN, January, 1927.

A study and demonstration of adjustments and farm organization and operation as related to the corn borer in northwestern Missouri.

LEADER, W. J. Roth. COOPERATION, Missouri Agricultural Experiment Station. BEGUN, November 1, 1930. PROBABLE COMPLETION, July 1, 1933.

A study of adjustments of farm organization and management and the complete utilization of the corn crop as related to the corn borer.

LEADER, George W. Collier. COOPERATION, Indiana Agricultural Experiment Station. BEGUN, November 1, 1928. PROBABLE COMPLETION, November 1, 1932.

A study of adjustments in farm organization and management in the corn borer area of southeastern Michigan.

LEADERS, W. J. Roth and P. G. Minneman. COOPERATION, Michigan Agricultural Experiment Station. BEGUN, October 1, 1929. PROBABLE COMPLETION, June 30, 1934.

A study of the organization and operation of mechanically equipped wheat farms in northeastern Montana.

LEADER, C. L. Holmes. COOPERATION, Montana Agricultural Experiment Station. BEGUN, May 1, 1930. PROBABLE COMPLETION, June 30, 1932.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - FIELD CROPS

A study of farm practice and farm organization in the newly developed wheat area of southwest Kansas.

LEADER, R. S. Kifer. BEGUN, November 15, 1929. PROBABLE COMPLETION, 1933.

An economic study of the problems of shifting at the farm from the sack method to the bulk method of handling grain.

LEADER, Neil Johnson. COOPERATION, Washington, Idaho, and Oregon Experiment Stations. BEGUN, June 1, 1930. PROBABLE COMPLETION, July 1, 1931.

Physical and economic factors associated with the distribution of winter wheat acreage in the United States by counties, 1909-1929.

LEADER, E. B. Hurd. BEGUN, October, 1930. PROBABLE COMPLETION, December, 1931.

A study of the economics of green manuring with winter cover crops.

LEADER, A. D. McNair. COOPERATION, Office of Forage Crops, B. P. I. BEGUN, April 1, 1929. PROBABLE COMPLETION, July 1, 1931.

A study of the economics of sweet clover production and utilization in the Great Plains region.

LEADER, M. A. Crosby. BEGUN, November 7, 1930. PROBABLE COMPLETION, June 30, 1932.

STATE AGRICULTURAL EXPERIMENT STATIONS

INDIANA - A study of adjustments of farm organization and management and of the complete utilization of the corn crop as related to the corn borer.

LEADER, G. W. Collier. OBJECTIVE, To determine: 1. The most successful systems of farm organization and management, and the utilization of the entire corn crop as an effective means of controlling the European corn borer. 2. The extent to which different methods of corn stalk utilization and disposal are now being practiced under different conditions. 3. Changes that should be made in crop rotations, livestock combinations, type of equipment, and farm practices, in order to better utilize corn stalks in ways that will give greater financial returns, economically conserve soil fertility, and most effectively control the European corn borer. AREA COVERED, Grant, Madison, Howard, Tipton, Clinton and other adjoining counties in Indiana. TIME, 4 years. BEGUN, November 1, 1928. PHASES COMPLETED, 2 years financial records summarized. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, November 1, 1932.

INDIANA - A study of the adaptability of the combine harvester-thresher and the small threshing machine for Indiana farms.

LEADER, E. C. Young. OBJECTIVE, 1. To study the practicability of the use of the combine harvester-thresher and small thresher under Indiana

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conditions. 2. To study the economic factors involved in the use of combines and small threshers in Indiana. 3. To study means of solving problems brought about by the use of this equipment. AREA COVERED, University and Experiment Station farms near Lafayette, North Vernon farm land, Bedford and Wanatah, and such other farms in the vicinity of these farms as may be contracted for. TIME 3 to 5 years. BEGUN, July 1, 1927. PHASES COMPLETED, All. PERCENTAGE COMPLETED, 100%.

IOWA - The economic aspects of the soy bean enterprise in Iowa.

LEADERS, W. G. Murray and H. D. Hughes. OBJECTIVE, Ascertain costs and economic possibilities of soy beans in Iowa farming. AREA COVERED, Iowa. TIME, 1931. BEGUN, July 1, 1931.

IOWA - Place of pasture in Iowa farming types. (Cooperating with B. A. E.)

LEADER, A. G. Black. OBJECTIVE, Survey of place of pasture in Iowa farm organization. AREA COVERED, Iowa. TIME, 1929-30. BEGUN, July 1, 1930. PHASES COMPLETED, Field work, tabulations, first draft of manuscript. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, June 30, 1932.

IOWA - An economic and engineering study of corn production methods in Iowa. (Cooperating with Agricultural Engineering)

LEADERS, E. V. Collins, and W. G. Murray. OBJECTIVE, To study corn production methods. AREA COVERED, Iowa. BEGUN, January 1927. (Cooperative Agreement begun July 1, 1931).

LOUISIANA - Some economic problems in rice farming, 1930.

LEADER, R. J. Saville. OBJECTIVE, To determine factors of organization and operation of rice farming associated with earnings and labor income. AREA COVERED, Prairie rice producing parishes of Louisiana. TIME, July 1, 1929 to June 30, 1931. BEGUN, July 1, 1929. PHASES COMPLETED, Preliminary report June 30, 1930. Analysis of data on final report July 31, 1931. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, January 1, 1932.

LOUISIANA - Organization and financial returns of small sugar cane farms, 1930.

LEADER, G. H. Reuss. OBJECTIVE, To determine factors of organization and operation associated with farm income and labor earnings. AREA COVERED, Southern Louisiana Parishes producing sugar cane for sugar. TIME, July 1, 1930 to June 30, 1931. BEGUN, July 1, 1930. PHASES COMPLETED, All.

MAINE - An economic study of the potato industry in Maine.

LEADERS, Charles H. Merchant and William E. Schrupf. OBJECTIVE, To determine: 1. The status and structure of the potato industry. 2. Costs

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - FIELD CROPS

of producing potatoes under varying conditions and practices. 3. The returns from potatoes sold through the various channels. 4. The factors in the potato farm organization that affect the operator's income. 5. Labor distribution with various set-ups. 6. All other important factors concerning the potato business and organization and management of potato farms. AREA COVERED, Aroostook, Penobscot, Piscataquis, and Somerset Counties. BEGUN, July 1, 1929. PHASES COMPLETED, Field work on records for two years. Partial analysis of this material has been made. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, June 30, 1933.

MARYLAND - The wheat industry in Maryland.

LEADER, S. H. DeVault. OBJECTIVE, To determine: 1. The relative importance of the wheat industry in the State. 2. The movement of soft winter wheat in the channels of distribution. 3. The specific uses made of Maryland wheat and the principal market outlets. 4. The relative economy in storing wheat on the farm in local elevators and in terminal elevators. 5. The status of milling in the State. 6. The market price differentials between soft winter and hard winter wheat and between "garlicky" and garlic-free wheat. 7. And the possibilities of the coordination of efforts of local cooperative associations in the State in marketing grain. AREA COVERED, Maryland. BEGUN, 1929. PHASES COMPLETED, Field work completed; data tabulated, analyzed and written up in manuscript form, ready for publication. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, 1931.

MICHIGAN - Farm management methods in the potato areas of Michigan.

LEADER, K. T. Wright. OBJECTIVE, To ascertain the relative importance of the different factors that make potato production under Michigan conditions successful or unsuccessful. AREA COVERED, The potato areas of the State. TIME, 3 years. BEGUN, February 1, 1930. PHASES COMPLETED, 1 year's results. PERCENTAGE COMPLETED, 33%. PROBABLE COMPLETION, 1933.

MICHIGAN - A study of adjustments in farm organization and management in the corn borer areas of southeastern Michigan.

LEADERS, P. G. Minneman of U. S. D. A. and E. B. Hill of Michigan. OBJECTIVE, Primarily to determine in the more intensive corn borer areas in Michigan, a most successful system of farm organization and operation involving the utilization and disposition of the entire corn crop as an effective means of controlling the European corn borer. AREA COVERED, 5 counties in southeastern Michigan. TIME, 3 years. BEGUN, October 1, 1929. PHASES COMPLETED, One year's results. PERCENTAGE COMPLETED, 33%. PROBABLE COMPLETION, 1932.

MINNESOTA - Economic study of potato production in relation to farm organization.

LEADER, L. F. Garey. OBJECTIVE, To determine importance of potatoes in farming and relation of prices to potato production. AREA COVERED,

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - FIELD CROPS

Minnesota. TIME, Indefinite. BEGUN, 1929. PHASES COMPLETED, Potato production in relation to farm organization. PROBABLE COMPLETION, Indefinite.

MISSISSIPPI - A study of plantation organization and management in the Yazoo-Mississippi Delta. (Cooperating with B. A. E.)

LEADER, Lewis E. Long. OBJECTIVE, To study plantation organization and management, methods of accounting and other economic phases of the plantation, to determine weaknesses, and suggest improvements. AREA COVERED, Yazoo-Mississippi Delta of Mississippi. TIME, 3 years or longer. BEGUN, Has been approved. To begin about November, 1931.

MISSOURI - A study and demonstration of adjustments in farm organization and operation as related to the corn borer in northwestern Missouri.

LEADER, Elgin E. McLean. OBJECTIVE, To study possible readjustments in this heavy producing corn area in case the corn borer affects corn production. AREA COVERED, One Missouri County. TIME, 3 years. BEGUN, 1930. PHASES COMPLETED, Labor income survey of 78 farms completed and analyses made. One hundred fifty-three records were started in spring of 1931. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, 1933.

NEW YORK CORNELL - Farm management problems in regions growing market hay.

LEADER, M. F. Thurston (To be revised for publication by V. B. Hart).

NEW YORK CORNELL - The production and marketing of field beans in New York.

LEADER, H. N. Young. PROGRESS, In process of publication.

NORTH CAROLINA - A study of methods and practices employed in the production of cotton and tobacco.

LEADERS, R. H. Rogers and G. W. Forster. OBJECTIVE, To study efficient methods of producing cotton and tobacco under farm conditions. AREA COVERED, Eastern Piedmont and Coastal Plain area. TIME, At least a 3-year study. BEGUN, March 1, 1930. PHASES COMPLETED, Cotton production studied on 36 farms in 1930. Financial statements prepared. PERCENTAGE COMPLETED, Probably, 33%. PROBABLE COMPLETION, Not before 1933.

OKLAHOMA - Systems of farming in Oklahoma.

1. Wheat farming in northwest Oklahoma.

LEADERS, P. H. Stephens and Emil Rauchenstein. OBJECTIVE, Farm management analysis of factors affecting profits on wheat farms. AREA COVERED, Ten counties in north central Oklahoma. TIME, Crop year, 1928. BEGUN, February 1, 1929. PHASES COMPLETION, Bulletin in proof. (Cooperating with B. A. E.)

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - FIELD CROPS

OKLAHOMA - Systems of farming in Oklahoma.

2. Cotton farming in southwestern Oklahoma.

LEADER, P. H. Stephens. OBJECTIVE, Farm management analysis of factors affecting profits on cotton farms. AREA COVERED, Ten counties in southwestern Oklahoma. TIME, Crop year, 1929. BEGUN, February 1, 1930. PHASES COMPLETED, Field survey completed and partial analysis of data. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, September, 1932.

OKLAHOMA - Systems of farming in Oklahoma.

3. Farm practices and costs in the feed producing areas of Oklahoma.

LEADERS, P. H. Stephens and E. H. Thibodeaux. OBJECTIVE, Analysis of farm management practices and costs of production in feed producing areas of Oklahoma. AREA COVERED, Northeastern and north central Oklahoma. BEGUN, December 1, 1930. PHASES COMPLETED, Field data being collected currently. PERCENTAGE COMPLETED, 15%. PROBABLE COMPLETION, January, 1934.

OREGON - An economic study of the hop industry in Oregon.

LEADER, G. L. Sulerud. OBJECTIVE, Assemble, analyze and interpret insofar as is possible, all the facts relating to the present economic status and outlook for the hop industry in Oregon. AREA COVERED, Oregon, but competing areas considered also. BEGUN, September 15, 1930. PHASES COMPLETED, Whole project, June 30, 1931. PERCENTAGE COMPLETED, 100%. PROBABLE COMPLETION, June, 1931.

SOUTH DAKOTA - A study of farm organization and farm practice in the wheat producing areas of South Dakota.

LEADERS, Sherman E. Johnson and C. M. Hampson. OBJECTIVE, To determine the most profitable type of farm organization and operation under varying conditions; to secure data on physical and financial requirements of the farms studied; and to determine the economic relation of this area to the United States wheat industry. AREA COVERED, Spring wheat area of South Dakota. TIME, 3 years. BEGUN, April, 1931. PHASES COMPLETED, First visit to cooperators. PROBABLE COMPLETION, 1935.

TEXAS - A study of the organization and management of farms in the High Plains cotton area of Texas.

LEADER, C. A. Bonnen. OBJECTIVE, To study the organization of farms and methods of production in the area. AREA COVERED, High Plains cotton-grain sorghum area. TIME, 3 years. BEGUN, January, 1931. PHASES COMPLETED, Organization and part of first year's records. PERCENTAGE COMPLETED, 18%. PROBABLE COMPLETION, Field work completed by April, 1934.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - FIELD CROPS

VERMONT - Economic study of the certified seed potato industry of Vermont.

LEADER, John A. Hitchcock. OBJECTIVE, Cost of production analysis. AREA COVERED, State. TIME, 1928-30. BEGUN, 1928. PHASES COMPLETED, 3 years' records taken. Tabulation of data in process. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, 1932.

AGRICULTURAL ECONOMICS

FARM MANAGEMENT - TYPES OF FARMING

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A study of types of farming in Connecticut.

LEADER, Emil Rauchenstein. COOPERATION, New Jersey Agricultural Experiment Station. BEGUN, February 1, 1931. PROBABLE COMPLETION, February 1, 1933.

Types of farming in Missouri.

LEADER, W. J. Roth. COOPERATION, Missouri Agricultural Experiment Station. BEGUN, September, 1929. PROBABLE COMPLETION, September, 1931.

STATE AGRICULTURAL EXPERIMENT STATIONS

ILLINOIS - Types of farming in Illinois.

LEADER, H. C. M. Case. OBJECTIVE, To determine the prevailing types of farming in Illinois. TIME, 1 year. AREA COVERED, Entire State. BEGUN, 1923. PHASES COMPLETED, Early census data used. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1932.

MICHIGAN - Types of farming in Michigan.

LEADER, E. B. Hill. OBJECTIVE, 1. To locate and delineate the different type-of-farming areas in Michigan. 2. To determine present organization of farms in these areas and the changes which have taken place. 3. To set up organizations typical of the important systems of farming in each county. AREA COVERED, Entire State. TIME, 3-1/2 years. BEGUN, October 1, 1927. PERCENTAGE COMPLETED, 100%. PROBABLE COMPLETION, 1931.

MINNESOTA - Types of farming and production areas in Minnesota.

LEADER, L. F. Garey. OBJECTIVE, To locate production areas and study factors determining them. Relation of price to shifts in production. AREA COVERED, Minnesota. TIME, Indefinite. BEGUN, 1925. PHASES COMPLETED, State divided into type-of-farming areas and an analysis made of representative townships in each area. PROBABLE COMPLETION, Indefinite.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - TYPES OF FARMING

MISSOURI - Types of farming in Missouri.

LEADERS, C. H. Hammar and W. J. Roth of the U. S. D. A. OBJECTIVE, To classify Missouri farm lands according to the chief type-of-farming followed or the suitability of various lands for certain types. AREA COVERED, Entire State. TIME, 1929-30. BEGUN, 1929. PHASES COMPLETED, Practically all lands are classified. Some checking up and corrections are being made by Mr. Roth. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, June, 1932.

TEXAS - A study of type-of-farming areas in Texas.

LEADER, C. A. Bonnen. OBJECTIVE, To locate, delineate, and describe the different type-of-farming areas in Texas on the basis of similarity in farm organization and natural environment. AREA COVERED, State of Texas. TIME, 3 years. BEGUN, April, 1928. PHASES COMPLETED, All. PERCENTAGE COMPLETED, 100%. PROBABLE COMPLETION, April, 1931.

AGRICULTURAL ECONOMICS

FARM MANAGEMENT - MISCELLANEOUS

STATE AGRICULTURAL EXPERIMENT STATIONS

CALIFORNIA - Hay stack measurements investigation.

LEADER, R. L. Adams. OBJECTIVE, To evolve an improved method for computing (from measurements) the tonnage of hay stacks. AREA COVERED, 9 counties. TIME, 2 years of measurement taking. BEGUN, August 1, 1927. PHASES COMPLETED, Collection of field data. Two publications by U. S. D. A. (This was a cooperative project). PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, January 1, 1932.

MINNESOTA - Comparison of different kinds of fence posts as to length of service.

LEADER, L. B. Bassett. OBJECTIVE, To determine the most economical type of fence post for farm use. AREA COVERED, University farm. BEGUN, June 10, 1914. PHASES COMPLETED, All wood post yards completed. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, 1936.

NORTH DAKOTA - An economic analysis of the use of tractors on farms in various parts of North Dakota.

LEADERS, Rex E. Willard and H. E. Ratcliffe. OBJECTIVE, To determine extent, effectiveness and economy of replacement of horses by tractors, cost of operation, relation of size of tractor to size and type of farming, etc. AREA COVERED, North Dakota. TIME, Indefinite. BEGUN, 1927.

AGRICULTURAL ECONOMICS - FARM MANAGEMENT - MISCELLANEOUS

PHASES COMPLETED, Some cost data. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, 1931.

OHIO - Trends in Ohio agriculture since 1910.

LEADER, J. I. Falconer. OBJECTIVE, To detect and measure the extent and nature of changes in Ohio agriculture since 1910. AREA COVERED, Ohio. TIME, 1910 to date. BEGUN, 1929. PHASES COMPLETED, Collected and tabulated one-half of data. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, 1932.

OHIO - A study of the local extension program and organization.

LEADER, R. C. Smith. OBJECTIVE, To make recommendations as to possible improvements in extension organization. AREA COVERED, Ohio. TIME, Since 1914. BEGUN, 1931. PHASES COMPLETED, Only just begun. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, 1933.

WEST VIRGINIA - Practical farm building plans for West Virginia.

LEADER, F. D. Cornell, Jr. OBJECTIVE, To develop a set of farm building plans suited to West Virginia farm conditions. AREA COVERED, Entire State. BEGUN, December, 1926. PHASES COMPLETED, Dairy buildings, and livestock buildings. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1933.

WEST VIRGINIA - A study of the economic and mechanical efficiency of orchard spraying equipment.

LEADER, F. D. Cornell, Jr. OBJECTIVE, To discover the most economical and effective method of orchard spraying. AREA COVERED, Mineral, Hampshire, Berkeley, and Jefferson Counties. TIME, 4 years. BEGUN, November, 1927. PHASES COMPLETED, 1. Survey of all stationary spray systems in the State. 2. Study costs of installation and operation. 3. Study cost of operation of portable equipment. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1932.

AGRICULTURAL ECONOMICS

COST OF PRODUCTION - GENERAL

BUREAU OF AGRICULTURAL ECONOMICS

Farm business study by means of account books.

LEADER, H. W. Hawthorne. COOPERATION, Extension Service, U. S. D. A. and Extension Service of the Tennessee Agricultural Experiment Station. BEGUN, January, 1927.

Detailed farm records and accounts study in Texas.

LEADER, B. H. Thibodeaux. COOPERATION, Texas Agricultural Experiment Station. BEGUN, July 1, 1929. PROBABLE COMPLETION, June 30, 1931.

Detailed farm records and accounts in Pine County, Minnesota.

LEADERS, W. J. Roth and C. W. Crickman. COOPERATION, Minnesota Agricultural Experiment Station. DATE BEGUN, January 1, 1925. PROBABLE COMPLETION, December 31, 1931.

The utilization and cost of farm power.

LEADERS, L. A. Reynoldson, W. H. Youngman. COOPERATION, B. P. R., B. A. I., and Missouri, Iowa, Illinois, Indiana, Michigan, Arkansas, Louisiana, Mississippi, Georgia, and South Carolina Agricultural Experiment Stations. BEGUN, September 1, 1929. PROBABLE COMPLETION, December 1, 1931.

STATE AGRICULTURAL EXPERIMENT STATIONS

ARKANSAS - Utilization and cost of farm power.

LEADERS, C. O. Brannen and D. G. Carter. OBJECTIVE, To make comparison on the basis of cost in the use of different kinds of farm power including tractors, especially mechanical power. AREA COVERED, Cotton and rice areas. TIME, 1 year. BEGUN, 1930. PHASES COMPLETED, Field work. PERCENTAGE COMPLETED, Practically complete. PROBABLE COMPLETION, 1931.

ILLINOIS - Farm financial record study.

LEADERS, R. R. Hudelson, P. E. Johnston, J. Ackerman, and H. C. M. Case. OBJECTIVE, To find practices and systems of farming which are proving profitable and to study the conditions under which these practices may be used advantageously. To study the effect on the farm income of the application, under farm conditions, of practices based on experimental data. To study the distribution of expenses and income between land owners and tenants, and the operation of different leasing systems, and to study the farm income under different types of farming and under different price conditions. AREA COVERED, Entire State. TIME, Continuous. BEGUN, 1924. PHASES COMPLETED, Annual reports prepared for cooperating counties. PERCENTAGE COMPLETED, Continuous. PROBABLE COMPLETION, Continuous.

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - GENERAL

ILLINOIS - Detailed farm accounting investigation.

LEADERS, H. C. M. Case, R. H. Wilcox, and R. G. Trummel. OBJECTIVE, To determine the cost of producing different farm products, and the influence of various factors on the cost of production; to provide a basis for interpreting the less complete records kept by farmers; and for securing information to assist in more economic organization and operation of farms. AREA COVERED, Selected areas by farming type areas, Champaign and Piatt Counties now included in current study. TIME, Indefinite. BEGUN, Current study begun in 1920 of present area. PHASES COMPLETED, Results used in various formal publications. PERCENTAGE COMPLETED, Indefinite. PROBABLE COMPLETION, Indefinite.

INDIANA - The utilization and cost of farm power.

LEADER, L. G. Hobson. OBJECTIVE, 1. To determine the usefulness of different forms of power for farming under different sets of conditions. 2. To determine the relation of different forms of power to the number and classes of livestock on the farm. 3. To determine the effect of different forms of power on farm organization. AREA COVERED, Indiana. TIME, Indefinite. BEGUN, September 16, 1929. PHASES COMPLETED, Survey completed. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, Indefinite.

INDIANA - Farm layout in its relation to fencing costs and farm income.

LEADER, E. C. Young. OBJECTIVE, 1. Cost of fencing in various types of farm layout. 2. Relation of fencing and layout to kind and amount of livestock kept. 3. Valuation of various crop residues in use by various classes of livestock. 4. Relation of utilization of crop residues to maintenance cost and feeding efficiency. 5. Comparative cost of temporary and permanent fence. 6. Relation of layout and fencing practice to farm income. AREA COVERED, Six counties in Indiana--Grant, Clinton, Madison, Hamilton, Delaware and Howard. TIME, 4 years. BEGUN, July 1, 1928. PHASES COMPLETED, Fence study completed; one year's records on pasture and labor requirements for field operations. PERCENTAGE COMPLETED, 33-1/3%. PROBABLE COMPLETION, June, 1932.

INDIANA - A study of farms operated by mechanical power.

LEADER, L. G. Hobson. OBJECTIVE, To determine the costs, organization, practices, yields and incomes of Indiana farms operated entirely by mechanical power. AREA COVERED, State of Indiana. TIME, 3 years. BEGUN, July 1, 1930. PHASES COMPLETED, One year's records completed. PERCENTAGE COMPLETED, 33-1/3%. PROBABLE COMPLETION, July 1, 1933.

INDIANA - A study of the influence of the application of electricity to the farm.

LEADER, J. C. Bottom. OBJECTIVE, To determine the influence on the farm home, on the farm organization and on the farm income of the application

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - GENERAL

of electricity to the farm, and to determine costs of performing certain operations by using electric and other sources of energy. AREA COVERED, Fountain and Delaware Counties, Indiana. TIME, 3 to 5 years. BEGUN, July 1, 1929. PHASES COMPLETED, Financial summary of all farms for two years; survey of crop and livestock practices summarized for two years; energy consumption per farm summarized for two years; survey of power and light operations summarized for two years. PERCENTAGE COMPLETED, 66-2/3%. PROBABLE COMPLETION, July 1, 1934.

IOWA - The utilization and costs of farm power.

LEADER, J. A. Hopkins, Jr. OBJECTIVE, To examine utilization of labor on Iowa farms and of the manner in which power and equipment is used to economize work in performance of farm operations. AREA COVERED, Cost record data now available from Iowa County and Webster County. Survey records in Brewer, Clay, and Shelby Counties and on corn crop in 5 other counties. TIME, 1925-1930. BEGUN, September 26, 1929. PHASES COMPLETED, Cost accounting records completed and ready for analysis. Survey records tabulated and in process of analysis. PERCENTAGE COMPLETED, 75%. of this phase of the study. PROBABLE COMPLETION, June 30, 1932.

KENTUCKY - A study of farm organization and management through accounts.

LEADER, W. D. Nicholls. OBJECTIVE, To develop reliable data to serve as a basis for improving the organization of the cropping and livestock enterprises on farms in Central and Western Kentucky for the purpose of making them return the maximum profits over a period of years. AREA COVERED, Central and Western Kentucky. TIME, July 1, 1925 and continued to date. BEGUN, July 1, 1925. PHASES COMPLETED, Work in Graves County area completed and reported in Kentucky Station Bulletins Nos. 289 and 292. Field work of Taylor County area phase completed. Data on Central Bluegrass area now being prepared for publication. PERCENTAGE COMPLETED, 70%. PROBABLE COMPLETION, July 1, 1933.

MICHIGAN - Farm accounting project.

LEADER, H. A. Berg. OBJECTIVE, To obtain data in regard to the organization and operating practices of farming in the different type-of-farming areas in Michigan. AREA COVERED, Entire State. TIME, Indefinite. BEGUN, January, 1928. PHASES COMPLETED, 3 years' results.

MINNESOTA - Cost accounting investigation on Minnesota farms.

LEADER, George A. Pond. OBJECTIVE, To obtain quantitative units of feed, labor, seed, and other items concerning agricultural production. To study season distribution of labor and labor returns from various types of farming. To study the relative profits from competing lines of production within the individual farm. To study systems of management and cost of production in relation to the farm as a producing unit. AREA COVERED, Partridge, Sandstone, and Finlayson townships, Pine County, Minnesota.

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - GENERAL

TIME, January 1, 1925 to December 31, 1927. BEGUN, January 1, 1925. PHASES COMPLETED, All field work and most of the analysis of the data obtained have been completed. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, 1932.

MISSOURI - Farm cost accounting.

LEADERS, O. R. Johnson, and B. H. Frame. OBJECTIVE, To keep in touch with trends in cost of production on Missouri farms. AREA COVERED, Entire State. TIME, Indefinite. BEGUN, 1909.

MISSOURI - Tractor and other farm equipment costs on the farm.

LEADER, B. H. Frame. OBJECTIVE, To study trend in equipment cost on typical Missouri farms by cost account method. AREA COVERED, Individual farms in approximately 20 different counties in Missouri. TIME, From 1915 down to date. BEGUN, 1915. PHASES COMPLETED, The data for this study are accumulative and are added to preceding year's work each year. PROBABLE COMPLETION, Indefinite.

NEBRASKA - Farm organization and farm costs.

LEADER, H. C. Filley. OBJECTIVE, (Data for this project is gathered in connection with Farm Management Survey listed under, "Farm Management - General", which see.)

NEVADA - Farm development studies and cost of production.

LEADER, F. B. Headley. OBJECTIVE, Labor requirements, physical requirements of farm enterprises, cost of production, analyses of labor and financial organization of various farm types, data bearing on feasibility of further development in irrigation farming. AREA COVERED, Western Nevada. TIME, 3 years. BEGUN, January 1, 1926. PROBABLE COMPLETION, Not determined.

NEW YORK CORNELL - A study of the cost of producing farm products.

LEADERS, J. F. Harriott, W. I. Myers, and E. G. Misner. OBJECTIVE, About 70 farms in the State are keeping cost account data for the entire farm enterprise. It is proposed to analyze the data from these accounts to determine the cost of producing potatoes, poultry, milk, and other farm products. Data are also being obtained by the survey method on the cost of production of these products. 1930-31 work will deal with the cost of keeping horses, giving special attention to the determination of how to reduce costs and the most successful operation of farms. An attempt will be made to determine what yields and what conditions of operation make it possible for certain farmers to succeed with particular crops or animals.

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - GENERAL

NEW YORK CORNELL - Results of cost accounts for two years (1927-1928) on Genesee County farms.

LEADERS, V. B. Hart, J. F. Harriott, and L. M. Vaughan.

NORTH CAROLINA - Farm reorganization.

LEADERS, R. H. Rogers and George R. Boyd. OBJECTIVE, A study of the possibilities and cost of farm reorganization, including field layout, cropping plans and more efficient machinery. AREA COVERED, East-central Piedmont and western coastal plain area. TIME, At least 3 years. BEGUN, March 1, 1930. PHASES COMPLETED, One year's farm business record finished. Detailed farm maps made. PERCENTAGE COMPLETED, Perhaps one-third. PROBABLE COMPLETION, 1933.

OHIO - Variations in crop and livestock production cost.

LEADER, J. F. Dowler. OBJECTIVE, To determine the causes of variation in livestock and crop production costs. AREA COVERED, Ohio. TIME, 10 years. BEGUN, 1920. PHASES COMPLETED, Collecting of data. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, 1932.

OHIO - Farm power costs.

LEADER, F. L. Morrison. OBJECTIVE, To determine the cost of farm power--man, animal and machine. AREA COVERED, 6 counties in Ohio. TIME, Since 1920. BEGUN, 1920. PHASES COMPLETED, Collection of data for 11 years. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1934.

SOUTH CAROLINA - Study of use and cost of farm power.

LEADER, B. A. Russell. OBJECTIVE, Determine relative cost and efficiency of different forms of farm power. AREA COVERED, Coastal Plains - Orangeburg County, Piedmont-Spartanburg and Anderson. TIME, 1930. BEGUN, 1930. PHASES COMPLETED, All. PERCENTAGE COMPLETED, 100%. PROBABLE COMPLETION, August, 1931.

AGRICULTURAL ECONOMICS

COST OF PRODUCTION - LIVESTOCK

STATE AGRICULTURAL EXPERIMENT STATIONS

COLORADO - A study of costs and methods of producing cattle and sheep on the range in Colorado.

LEADERS, R. T. Burdick and Martin Reinholt. OBJECTIVE, Study production costs and organization methods in producing cattle on the range. It has

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - LIVESTOCK

been our purpose to secure information which might be used to advantage in organizing the ranch business on a more profitable basis. AREA COVERED, Mountain and plains districts of Colorado. TIME, 9 years. BEGUN, 1922. PHASES COMPLETED, Certain phases of ranch organization. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, Will continue 4 or 5 years.

ILLINOIS - Cost of producing pork.

LEADERS, H. C. M. Case, R. H. Wilcox, and H. P. Rusk. OBJECTIVE, 1. To obtain facts regarding the management of swine herds in the State and to secure fundamental basic requirements of feed, labor and miscellaneous cost items in pork production. 2. To study the relation of the swine enterprise to the organization, the returns and the permanent productiveness of the farm. AREA COVERED, McLean and Woodford counties, Illinois. TIME, 3 years. BEGUN, 1926. PHASES COMPLETED, Manuscript practically ready for editing. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, 1931.

MASSACHUSETTS - Livestock management, methods and cost.

LEADER, James A. Foord. OBJECTIVE, To study the methods and expense of eliminating Bangs Disease in herds, as well as the advantages and labor involved in different methods of housing and handling dairy cattle. AREA COVERED, Massachusetts. BEGUN, 1930. Records available precede this date. PHASES COMPLETED, Data still being gathered. PERCENTAGE COMPLETED, 50%.

OHIO - The costs of sheep and wool production in southeastern Ohio.

LEADER, F. L. Morrison. OBJECTIVE, To determine the costs and variations in costs in sheep and wool production. AREA COVERED, Southeastern Ohio. TIME, Five years. BEGUN, 1928. PHASES COMPLETED, First two years records collected. PERCENTAGE COMPLETED, 40%. PROBABLE COMPLETION, 1932.

AGRICULTURAL ECONOMICS

COST OF PRODUCTION - DAIRY PRODUCTS

BUREAU OF AGRICULTURAL ECONOMICS

Farm account studies in dairy section of southeastern Minnesota.

LEADERS, W. J. Roth and C. W. Crickman. COOPERATION, Minnesota Agricultural Experiment Station. BEGUN, January 1, 1928. PROBABLE COMPLETION, December, 1932.

STATE AGRICULTURAL EXPERIMENT STATIONS

ARKANSAS - Cost of production and marketing of dairy products in Arkansas.

LEADER, E. P. Dargan. OBJECTIVE, To determine the cost of producing milk, delivering at the market, type of buyer, and price of products.

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - DAIRY PRODUCTS

AREA COVERED, Area of commercial production. TIME, 3 years contemplated. BEGUN, 1928. PHASES COMPLETED, Preliminary survey. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, 1932.

IDAHO - A dairy enterprise cost and efficiency study.

LEADER, Paul A. Eke. OBJECTIVE, 1. To assist dairymen in determining the cost of producing dairy products. 2. To discover the more efficient practices for the areas in which the studies are made. AREA COVERED, In one or two counties in southern Idaho and possibly one county in northern Idaho. TIME, 1 year's business, and possibly one or two years more. BEGUN, 1931. PHASES COMPLETED, None. PROBABLE COMPLETION, 1932 or 1933.

MASSACHUSETTS - Study of factors responsible for variations in physical production and economic costs of milk in Massachusetts.

LEADER, James A. Foord. OBJECTIVE, To determine and measure factors responsible for variations in production and costs of milk in Massachusetts. AREA COVERED, Massachusetts. BEGUN, 1930. PHASES COMPLETED, Some data obtained.

MINNESOTA - An accounting study of factors affecting the incomes of dairy farms.
1. An analysis of the influence of each factor in increasing the income.
2. The use of accounting results, outlook information, and other research data in planning profitable farm organizations.

LEADERS, George A. Pond, William L. Cavert, and Walter J. Roth. OBJECTIVE, 1. To determine profitable systems of farming followed in the dairy section of southeastern Minnesota and analyze the factors that contribute to this success. 2. To study the usefulness of accounting results from this project supplemented with detailed farm record and account studies formerly made in this section, outlook reports and other research data in planning profitable farm organizations and adjustments for dairy farms. AREA COVERED, Dodge, Freeborn, Goodhue, LeSueur, Mower, Rice, Steele and Waseca counties, Minnesota. TIME, January 1, 1928 to December 31, 1933. BEGUN, January 1, 1928. PHASES COMPLETED, 3 years' records have been completed and summarized on a non-fee basis and on January 1, 1931 another 3 years' work was started on a fee basis. PERCENTAGE COMPLETED, 50%. of what is now under contract but these contracts may be renewed. PROBABLE COMPLETION, Present contracts expire December 31, 1933 but may be renewed at that time.

NEW YORK CORNELL - Cost of producing milk.

LEADERS, L. C. Cunningham and E. G. Misner.

NEW YORK CORNELL - Economic aspects of milk distribution in up-state cities of New York.

LEADER, L. Spencer.

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - DAIRY PRODUCTS

NORTH CAROLINA - A study of factors influencing the production costs on dairy farms in the Piedmont area.

LEADER, R. H. Rogers. OBJECTIVE, To obtain production and distribution data that will aid dairymen. AREA COVERED, Piedmont Area. TIME, July 1, 1930 to June 30, 1931. BEGUN, July 1, 1931. PHASES COMPLETED, Field survey now under way. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, Field work will end September 20, this year. Analysis and report should be finished by January 1, 1932.

OREGON - Dairy farm cost and organization study.

LEADER, H. E. Selby. OBJECTIVE, 1. To determine the costs of producing dairy products in the different dairy regions of the State. 2. To determine how dairy products may be produced more cheaply. 3. To determine in what regions of the State dairying can advisedly be encouraged to expand. 4. To determine what types of dairying are most profitable. 5. To determine the economic place of dairying in Oregon. AREA COVERED, All the State. TIME, April 1, 1929 to March 31, 1932. BEGUN, September, 1929. Beginning inventories obtained. PHASES COMPLETED, Data for 1929-30 secured and analyzed. Data for 1930-31 secured and is now being analyzed. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, December, 1932.

AGRICULTURAL ECONOMICS

COST OF PRODUCTION - POULTRY PRODUCTS

STATE AGRICULTURAL EXPERIMENT STATIONS

MICHIGAN - A study of the relation between management practices, costs and profits in the poultry enterprise.

LEADER, K. T. Wright. OBJECTIVE, To determine the relation between practices, costs and profits in the poultry enterprise. AREA COVERED, South-eastern and western Michigan. TIME, 3 to 4 years. BEGUN, January, 1931. PROBABLE COMPLETION, 1934.

NEW YORK CORNELL - Cost of producing eggs, farm management of poultry farms, and other economic factors affecting poultry.

LEADER, E. G. Misner.

OREGON - Cost and efficiency in commercial egg production.

LEADER, H. D. Scudder. OBJECTIVE, 1. To determine the cost of commercial egg production in Oregon. 2. The major factors in poultry farm organization

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - FOULTRY PRODUCTS

and operation that influence cost. AREA COVERED, All Willamette valley counties. Clatsop and Columbia counties in the coastal region. Deschutes, Umatilla, Morrow, and Wasco counties in eastern Oregon. Douglas, Jackson, and Josephine counties in southern Oregon. TIME, November 1, 1925 to October 31, 1928. BEGUN, November, 1926. PHASES COMPLETED, Study completed and bulletin to press. PERCENTAGE COMPLETED, 100%.

AGRICULTURAL ECONOMICS

COST OF PRODUCTION - FRUITS AND VEGETABLES

STATE AGRICULTURAL EXPERIMENT STATIONS

IDAHO - A potato enterprise cost and efficiency study.

LEADER, Paul A. Eke. OBJECTIVE, 1. To assist growers in determining the cost of production of potatoes. 2. To discover the more efficient practices for the areas in which the studies are made. AREA COVERED, One or two counties in southern Idaho and possibly one county in northern Idaho. TIME, May 1, 1931 to May 1, 1932 with plans to extend the project for one or two years more if experience warrants this procedure. BEGUN, May 1, 1931. PHASES COMPLETED, Monthly reports coming into office. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, Indefinite.

NEW MEXICO - The cost of producing and marketing New Mexico grown fruits and vegetables.

LEADERS, A. L. Walker and P. W. Cockerill. OBJECTIVE, To determine the cost of producing and marketing fruits and vegetables. To also direct attention to the factors entering into determining the cost of producing and marketing important New Mexico grown fruits and vegetables, etc. AREA COVERED, All of the important fruit and vegetable producing sections of New Mexico. TIME, September 1, 1927. BEGUN, Fall of 1927. PHASES COMPLETED, Field work partially completed. PERCENTAGE COMPLETED, 40%. PROBABLE COMPLETION, June, 1935.

NEW YORK CORNELL - Cost of apple production in Hilton area, 1929-1933.

LEADER, T. E. LaMont.

NEW YORK CORNELL - Cost of producing grapes.

LEADER, G. P. Scoville.

OREGON - Prune enterprise cost and efficiency study.

LEADER, H. D. Scudder. OBJECTIVE, 1. To determine the cost of dried prune production in western Oregon. 2. The major factors in the organization of the prune farm and the prune enterprise that influences costs and

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - FRUITS AND VEGETABLES

profits. AREA COVERED, Willamette and Umpqua Valleys. (Washington, Polk, Yamhill, Marion and Douglas counties). TIME, January 1, 1923 to December 31, 1926. BEGUN, January 1, 1924. PHASES COMPLETED, All. PERCENTAGE COMPLETED, 100%. PROBABLE COMPLETION, September, 1931.

PENNSYLVANIA - Factors affecting the production of U. S. standard grapes of apples.

LEADERS, F. N. Fagan, J. E. McCord, H. N. Worthley, and H. W. Thurston. OBJECTIVE, Cost studies on various cultural practices and the relation of these costs and practices to the volume of various grades of apples produced. AREA COVERED, College apple orchards. TIME, 5 years. BEGUN, 1929. PHASES COMPLETED, Data gathered for 2 years. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, 1935.

AGRICULTURAL ECONOMICS

COST OF PRODUCTION - FIELD CROPS

BUREAU OF AGRICULTURAL ECONOMICS

An economic study of the costs and methods of harvesting corn in Illinois with particular reference to prospective corn borer infestation.

LEADERS, W. J. Roth, and Kenneth Myers. COOPERATION, Illinois Agricultural Experiment Station. BEGUN, September 1, 1929. PROBABLE COMPLETION, December, 1931.

Cost of producing field crops.

LEADER, M. R. Cooper. COOPERATION, Division of C. & L. E., B. A. E. BEGUN, October, 1922. PROBABLE COMPLETION, Continued study.

STATE AGRICULTURAL EXPERIMENT STATIONS

ARIZONA - Cost of producing field crops in Arizona.

LEADER, S. P. Clark. OBJECTIVE, To secure detailed cost on the principal field crops grown in the Salt River Valley, Arizona. AREA COVERED, Roosevelt Irrigation Project, Arizona. TIME, 1928-29-30. BEGUN, Spring of 1928. PERCENTAGE COMPLETED, Field work.

ARKANSAS - Study of farm management and cost of production in the rice producing area of Arkansas.

LEADER, Orville J. Hall. OBJECTIVE, To study methods and practices in rice farming and cost of production including financial analysis of the farm as a whole. AREA COVERED, Rice area. TIME, 3 years. BEGUN, 1928. PHASES COMPLETED, Practically completed. PROBABLE COMPLETION, Project may be continued with cost records and accounts.

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - FIELD CROPS

CALIFORNIA - Study of economic factors in costs of producing California crops as affecting farm organizations and profits.

LEADER, R. L. Adams. OBJECTIVE, To collect and summarize basic data on day's work, depreciation, contract costs, use of equipment including horses, tractors, trucks, etc., in production of specific crops. AREA COVERED, State-wide. TIME, Data are designed to reflect current conditions, with comparisons running several years back. BEGUN, June, 1927. PHASES COMPLETED, Most of the field work, some analysis of the Extension Division data, much of the manuscript. PERCENTAGE COMPLETED, 90% of the field work; 50% of Extension record analysis; and 75% of manuscript. PROBABLE COMPLETION, January 1, 1932.

ILLINOIS - Methods and costs of harvesting corn.

LEADERS, P. E. Johnston, and R. C. Ross. (Cooperating with U. S. D. A.), OBJECTIVE, The recent introduction of considerable numbers of one-and-two-row corn pickers of the power take-off type and of field silage cutters is raising many questions as to the cost and efficiency of these methods in comparison with earlier established practices of hand husking, stationary silage cutters, and husker-shredders. This project is designed to secure data from which may be determined the costs and labor requirements of the various methods being used to harvest corn. AREA COVERED, Throughout central Illinois. TIME, 2 years. BEGUN, 1929. PHASES COMPLETED, Manuscript ready for printer. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, 1931.

ILLINOIS - Methods and costs of growing and harvesting soybeans.

LEADER, R. C. Ross. OBJECTIVE, A study of practices and costs in growing soybeans, the relative efficiency and economy of different methods of harvesting the crop, both for hay and grain and the place of soybeans in corn-belt farming. AREA COVERED, East central Illinois. TIME, A 2-year period. BEGUN, 1928. PHASES COMPLETED, Field work completed, manuscript in preparation. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, 1931.

ILLINOIS - Methods of harvesting small grain and seed crops.

LEADER, R. C. Ross. OBJECTIVE, The rapid introduction of the combined harvester-thresher into Illinois is raising many questions regarding the cost and requirements of this method of harvesting in comparison with the binder and stationary thresher method. This project is designed to secure data from which may be determined costs and labor and power requirements of harvesting small grain and seed crops with combines as compared with binders and stationary threshers, and the place of the combine in corn-belt farming. AREA COVERED, Central Illinois. TIME, 2 years. BEGUN, 1928. PHASES COMPLETED, Mimeographed report prepared of work. PERCENTAGE COMPLETED, 85%. PROBABLE COMPLETION, 1932.

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - FIELD CROPS

INDIANA - A study of the cost of operation and the efficiency of mechanical corn pickers in Indiana.

LEADER, L. G. Hobson. OBJECTIVE, To determine: 1. The comparative cost and other advantages or disadvantages of harvesting ear corn by hand and with mechanical pickers of the one-row and two-row types. 2. To provide information that will help individual farmers decide whether, under their conditions, it is economical to own a mechanical corn picker. 3. To determine, if possible, improvements that will make mechanical corn pickers more useful. AREA COVERED, Central Indiana. TIME, 2-1/2 years. BEGUN, October 1, 1929. PHASES COMPLETED, 2 of the 3 years' records have been secured and tabulated. PERCENTAGE COMPLETED, 66-2/3%. PROBABLE COMPLETION, March 1, 1932.

IOWA - Detailed farm records and accounts (Webster County, Iowa).

LEADER, J. A. Hopkins, Jr. OBJECTIVE, To obtain accurate data upon which to base studies in farm organization and management for cash grain area of Iowa, on functions of enterprises, variation in farm performance, as basis of recommendations to farmers which would permit fuller use of their resources. AREA COVERED, Webster County. TIME, 1928-1930. BEGUN, January 1, 1928. PHASES COMPLETED, Three years records completed and tabulated. Now in process of analysis. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, June 30, 1932.

MISSISSIPPI - Economic phases of "one-variety" cotton communities.

LEADERS, Lewis E. Long and probably J. F. O'Kelly. OBJECTIVE, To determine the comparative quantity costs of production and prices received for cotton and cotton seed produced on farms growing one improved variety and on other nearby farms. AREA COVERED, Sixteen communities in 12 counties well distributed over the State of Mississippi. TIME, Set-up for 1 year. BEGUN, July, 1931. PHASES COMPLETED, None. PERCENTAGE COMPLETED, 5%. PROBABLE COMPLETION, April, 1932.

MISSOURI - The economic use of power, labor, and machinery in crop production.

LEADERS, O. R. Johnson, B. H. Frame, and J. C. Wooley of B. A. E. OBJECTIVE, To study variations in type of power used and variation in cost to that power in certain areas making rather generous use of tractor power. AREA COVERED, 5 Missouri counties. TIME, 1 season, 1929. BEGUN, 1929. PHASES COMPLETED, All field work and some tabulation. PERCENTAGE COMPLETION, 75%. PROBABLE COMPLETION, 1932.

NEBRASKA - Cost of producing farm crops.

LEADER, H. C. Filley. OBJECTIVE, To ascertain the cost of producing farm crops in Nebraska, and power and equipment costs. AREA COVERED, Entire

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - FIELD CROPS

State. TIME, 1926 to present. BEGUN, 1926. PHASES COMPLETED, Annual collection and analyses of data. PROBABLE COMPLETION, Indefinite.

NEW HAMPSHIRE - Hay and silage production costs in New Hampshire.

LEADER, M. F. Abell. OBJECTIVE, To determine most practical methods of producing hay and silage. AREA COVERED, Whole State. TIME, 1928 and 1929 hay and silage crops. BEGUN, August, 1928. PHASES COMPLETED, Field work and editing. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, May 1, 1932.

NEW JERSEY - Cost of production of farm crops.

LEADER, Allen G. Waller. OBJECTIVE, To determine the cost of producing farm products in New Jersey, the amounts of materials and labor required, and factors including practices that make for efficiency in production. AREA COVERED, Entire State, and the area depends upon the product being studied. TIME, Kept current. BEGUN, 1915. PHASES COMPLETED, From year to year the current surveys are reported and in a sense are completed to this extent.

NEW YORK CORNELL - Cost of producing potatoes in New York.

LEADER, F. L. Underwood.

NEW YORK CORNELL - Crop yields on different soil types and costs of production.

LEADER, F. F. Hill.

NEW YORK CORNELL - Relation of soil types and crop yields on farms keeping cost accounts.

LEADER, J. H. Bondurant.

NORTH CAROLINA - Factors which influence the cost of producing farm crops.

LEADER, G. W. Forster. OBJECTIVE, To prepare data showing the cost of producing the major farm products in North Carolina; to study the factors that influence production costs; to study the relationships between costs on different farms with reference to practices followed; to point out how information on cost may be of value to farmers and for public purposes. AREA COVERED, Selected counties in each of the four geographical areas of North Carolina. TIME, 1923 to 1931. BEGUN, 1922. PHASES COMPLETED, 4 bulletins on farm organization and management have been published. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1931.

OKLAHOMA - An economic analysis of the ginning industry in Oklahoma.

LEADER, Omer W. Herrmann. OBJECTIVE, Analysis of factor of cost and income of cotton gins. AREA COVERED, Cotton area of Oklahoma. TIME, 5-year

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - FIELD CROPS

period, 1924-1929. BEGUN, September 30, 1929. PHASES COMPLETED, Analysis of data completed. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, February, 1932.

OREGON - Walnut cost study (English or Persian).

LEADER, A. S. Burrier. OBJECTIVE, 1. To determine the cost of producing walnuts. 2. What factors have a major influence on cost. 3. The cost of establishing a walnut planting to bearing age. 4. The most economical methods of establishing a walnut planting age. AREA COVERED, Willamette Valley. TIME, January 1, 1929 to December 31, 1931. (1930 crop omitted because of almost complete crop failure,) BEGUN, January, 1930. PHASES COMPLETED, Production cost data for 1929 crop collected, tabulated and a progress report issued. Practically all data pertaining to the cost of establishing an orchard has been collected and is now being analyzed. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, September, 1932.

PENNSYLVANIA - A study of the ensilage harvester method of filling silos.

LEADERS, P. I. Wrigley, R. U. Blasingame and F. P. Weaver. OBJECTIVE, To study the Ronning Ensilage Cutter and other machinery as means of reducing costs of filling silos. AREA COVERED, The College Farm. TIME, 1 year. BEGUN, August, 1931. PHASES COMPLETED, Plans. PROBABLE COMPLETION, 1932.

TEXAS - Economic significance of the different methods of harvesting and ginning cotton.

LEADERS, L. P. Gabbard and D. L. Jones. OBJECTIVE, To determine the relative economic advantages of picking, snapping, and "sledding" cotton in the High Plains region of Texas. AREA COVERED, High Plains cotton area of northwestern Texas. TIME, 4 years. BEGUN, October 1, 1927. PROBABLE COMPLETION, January, 1932. PHASES COMPLETED, Field data assembled. COMPLETED, 75%.

VIRGINIA - Cost of production and profits under the systems of farming in the potato growing areas of Virginia.

LEADERS, J. J. Vernon and H. T. Wingate. OBJECTIVE, To determine the factors affecting costs of producing potatoes and to discover the principles of successful farm organization on potato farms in Virginia. AREA COVERED, Eastern shore of Virginia and section adjacent to Norfolk. BEGUN, July 1, 1929. PHASES COMPLETED, Records taken and checked. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, December, 1931.

WASHINGTON - The economic relation of tractors to farm organization in the grain farming areas of eastern Washington.

LEADER, E. F. Landerholm. OBJECTIVE, 1. To determine the relation between size of tractor and size of farm under the different types of topography

AGRICULTURAL ECONOMICS - COST OF PRODUCTION - FIELD CROPS

and types of farming prevailing in the grain area. 2. The cost of performing the principal field operations. 3. The optimum combination of tractor and horse power under different sets of conditions obtaining in the grain area. 4. The most efficient sizes, types and combinations of tractor equipment for the most prevalent sets of conditions found within the area. 5. The factors of cost and to develop so far as possible plans for reducing the total costs to a minimum. AREA COVERED, Pullman, Washington, and various points throughout the grain belt. TIME, 2 years. BEGUN, September 18, 1930. PHASES COMPLETED, Field work practically completed. PERCENTAGE COMPLETED, 65%. PROBABLE COMPLETION, July, 1932.

AGRICULTURAL ECONOMICS

MARKETING - GENERAL

BUREAU OF AGRICULTURAL ECONOMICS

Agricultural survey of Europe - Czechoslovakia.

LEADER, L. G. Michael. BEGUN, 1921. PROBABLE COMPLETION, December 31, 1930.

Movements in international trade of certain agricultural products.

LEADER, L. G. Michael. BEGUN, 1929. PROBABLE COMPLETION, 1931.

Agricultural survey of Europe - Austria.

LEADER, L. G. Michael. BEGUN, 1921. PROBABLE COMPLETION, 1931.

Factors affecting supply and demand of strawberries in New York City.

LEADERS, M. R. Cooper, and Earl R. French. COOPERATION, Arkansas Agricultural Experiment Station. BEGUN, April, 1928. PROBABLE COMPLETION, January 1, 1932

STATE AGRICULTURAL EXPERIMENT STATIONS

CALIFORNIA - Analysis of operating practices and organization of plants handling and processing agricultural products.

LEADER, J. M. Tinley. OBJECTIVE, To determine for each product to be studied the most economical size, type, and location of plants, the relative economy of different organizations of the labor force, the relative economy of different combinations of labor and equipment; to develop operating ratios and operating standards that will be useful to owners and operators of handling and processing plants in improving the efficiency of their operations. AREA COVERED, State of California. TIME, 1930-1933. BEGUN, 1930. PHASES COMPLETED, Analysis of the organization and efficiency of creameries has been started. Collection of data covering this year's operations now under way. PROBABLE COMPLETION, 1933 or 1934.

ILLINOIS - Country grain elevator investigations.

LEADERS, C. L. Stewart and L. J. Norton and L. F. Rickey. OBJECTIVE, To determine: 1. The relative importance of different types of country elevators in Illinois. 2. The business practices regarding buying, storing, and selling. 3. The market destinations of grain shipments. 4. The seasonal variations in purchases, sales, and shipments. 5. The organization characteristics and business practices of farmers' elevators. 6. Variation in unit costs of prices paid by different types of elevators and factors influencing costs and profits. AREA COVERED, Illinois. TIME, 1925 to date. BEGUN, 1925. PHASES COMPLETED, Survey of time and destination of shipments of grain from Illinois elevators; six years of audit information collected and summarized in preliminary form. PROBABLE COMPLETION, Indefinite

AGRICULTURAL ECONOMICS - MARKETING - GENERAL

IOWA - Elasticity of supply of corn and hogs for the different types of farming areas in Iowa.

LEADERS, T. W. Schultz and A. G. Black. OBJECTIVE, The project is designed to answer the problem to what extent the farming areas of the State are in a position to adjust their corn and hog production to market demand. The objectives are three-fold in character. 1. To ascertain the farming areas which are best suited to produce corn as a cash grain regardless of the usual corn-hog price relationship changes. 2. To ascertain the areas particularly adapted to hog production which under normal circumstances cannot afford to shift from hog production to corn production for sale. 3. To ascertain those areas which might well shift from hog to cash corn production and vice versa with changes in the price relationship of the two commodities. The study will indicate to what extent changes in the corn-hog ratio afford actual price opportunities which farmers might capitalize. AREA COVERED, State of Iowa. TIME, 1920 to date. BEGUN, September 1, 1931. PHASES COMPLETED, Some necessary basic statistical data have been compiled and arranged in tabular form. PERCENTAGE COMPLETED, 5%. PROBABLE COMPLETION, June, 1933.

LOUISIANA - An historical and statistical study of Louisiana trade centers, 1901 to 1931.

LEADER, T. Lynn Smith. OBJECTIVE, To study the incidence in Louisiana of the various types of farmer's trading centers, their structure and organization, the interrelations between them, and the changes they have undergone since 1901. AREA COVERED, The State of Louisiana. TIME, 1901, 1906, 1911, 1916, 1921, 1926, and 1931. BEGUN, July 1, 1931. PROBABLE COMPLETION, June 30, 1932.

MICHIGAN - Municipal produce markets in Michigan.

LEADER, O. Ulrey. OBJECTIVE, Study of patronage, operations, and administration of municipal markets in Michigan, as direct outlets for farmers' products. AREA COVERED, Twenty wholesale and retail markets of Michigan. TIME, 1930. BEGUN, September 1, 1930. PHASES COMPLETED, 90% of data collected. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, June, 1932.

MICHIGAN - Role of the motor truck in the marketing of Michigan farm products.

LEADER, G. N. Motts. OBJECTIVE, A study of the trucking of fresh fruits and vegetables, livestock, potatoes, and beans, and market milk in Michigan and of effect on farmers' incomes. AREA COVERED, Michigan. TIME, Not precisely set as yet, although the entire study should be completed in about two years. BEGUN, August 1, 1931. PHASES COMPLETED, None. PERCENTAGE COMPLETED, 10% of field data for part on fresh fruits and vegetables. PROBABLE COMPLETION, Part 1, in spring of 1932. The study as a whole, August 1933.

AGRICULTURAL ECONOMICS - MARKETING - GENERAL

MINNESOTA - Growth and decline of farm trade centers in Minnesota, 1905-1930.

LEADER, C. E. Lively. OBJECTIVE, To study the differential growth and decline of trade centers in relation to the agricultural industry and population. AREA COVERED, State of Minnesota. TIME, 1905-1930. BEGUN, July 1, 1930. PHASES COMPLETED, All phases except publication. PERCENTAGE COMPLETED, 100%.

MINNESOTA - Factors influencing the demand for Minnesota agricultural products.

LEADERS, W. C. Waite, and R. W. Cox. OBJECTIVE, To determine the variations in the demand for Minnesota agricultural products individually and as a whole, and the factors influencing these variations in demand. AREA COVERED, Principal markets for Minnesota agricultural products. TIME, Largely 1900 to date. BEGUN, August 1, 1930. PHASES COMPLETED, Preliminary analysis of meats, dairy products, and flax. PERCENTAGE COMPLETED, Small.

MINNESOTA - Market organization investigations.

LEADER, O. B. Jesness. OBJECTIVE, To develop the principles relating to the efficient organization of marketing units; and to do the same for the inter-relations of these units. AREA COVERED, State of Minnesota. TIME, Continuous project. BEGUN, 1923. PHASES COMPLETED, 7 years analysis of annual reports. PERCENTAGE COMPLETED, Continuous project. PROBABLE COMPLETION, Indefinite.

NEW YORK CORNELL - An economic study of the Albany market for perishable farm products.

LEADER, W. C. Hopper.

OHIO - Road-side markets for Ohio.

LEADER, C. W. Hauch. OBJECTIVE, To study factors of success in road-side markets for farm products. AREA COVERED, Ohio. TIME, 2 years. BEGUN, 1929. PHASES COMPLETED, Collecting data. PERCENTAGE COMPLETED, 85%. PROBABLE COMPLETION, February, 1933.

WYOMING - Requirements of consumers area.

LEADERS, A. F. Vass, and Harry Pearson. OBJECTIVE, Determine consumption of food products from standpoint of quantity and quality, variations and trends in consumption, reasons therefor, and methods of distribution as basis of action for: 1. Producer who supplies area. 2. Distribution of food products in area. 3. Consumer of area. To adjust local production of

AGRICULTURAL ECONOMICS - MARKETING - GENERAL

the products to home consumption. AREA COVERED, Albany and Natrona counties. TIME, 6 years. BEGUN, April 1, 1926. PHASES COMPLETED, All field work has been completed. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, July, 1932.

INDEPENDENT INSTITUTIONS

STANFORD UNIVERSITY, CALIFORNIA - Wheat studies.

OBJECTIVE, Specific projects were not reported but the Institute conducts both economic and biochemical researches, the former occupying the larger place in its program. The economic publications fall into four broad classes. Extensive wheat studies are conducted resulting in publication of one volume of 10 issues during each year. Each volume is composed of (a) Reviews, (b) Surveys, and (c), Research monographs presenting results of research on programs related to the marketing of the world's wheat. Studies are also conducted on fats and oils of both animal and vegetable origin dealing primarily with economic aspects - Production, trade, prices, and utilization - but with full consideration of pertinent facts regarding technical methods. Varied other economic studies are made and reported in numerous publications.

UNIVERSITY OF TEXAS, AUSTIN, TEXAS - The use of trucks in the transportation
(Bureau of Business Research) of Texas cotton.

LEADERS, Herschel C. Walling and Dr. A. B. Cox. TIME, 1931.

UNIVERSITY OF CHICAGO, ILLINOIS - The supply and distribution areas of the
Chicago market for certain commodities.

LEADER, E. A. Duddy. AREA COVERED, Chicago market, but investigation necessarily includes activities of markets other than Chicago. TIME, 1920 to date. OBJECTIVE, By a series of detailed commodity studies it is hoped to define the geographical extent of the supply and distribution areas; to study seasonal aspects of receipts and shipments; to discover and measure the effect of causes of change; to plot potential areas of supply and distribution. BEGUN, 1929. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, 1933-34.

AGRICULTURAL ECONOMICS

MARKETING - COST

STATE AGRICULTURAL EXPERIMENT STATIONS

INDIANA - Costs and incomes of local elevators.

LEADER, A. F. Hinrichs. OBJECTIVE, 1. To make a cross-sectional study of the present local grain market in Indiana in terms of available cost

AGRICULTURAL ECONOMICS - MARKETING - COST

and income data. 2. To obtain information on costs and incomes of representative elevators for the purpose of assisting local elevators to become more efficient. 3. To determine what can be learned and accomplished through studies of economic factors affecting the efficiency of local marketing organizations in Indiana. AREA COVERED, All of Indiana north of a line drawn east and west from Indianapolis. TIME, 5 years. BEGUN, August 1, 1929. PHASES COMPLETED, Gathering of field data for three years. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, June 30, 1934.

NEW HAMPSHIRE - A study of practices and factors affecting marketing costs and the quality of milk produced on New Hampshire farms.

LEADERS, E. H. Rinear, and H. C. Moore. OBJECTIVE, To study and to obtain costs of the methods and practices in marketing grade A and grade B milk; to learn the most economical method of caring for milk in preventing bacteria development when milking, cooling, trucking, assembling, transporting and distributing from the time it is drawn until it is delivered to the consumer. AREA COVERED, 150 grade A and 150 grade B milk producers in Grafton County. The Boston Market. TIME, Several years. BEGUN, Still inactive. PHASES COMPLETED, Preliminary testing of schedules to be used in field.

SOUTH DAKOTA - Problems of elevator management, financing, and organization.

LEADER, R. E. Post. OBJECTIVE, To analyze thoroughly the operation, financing and organization of farmers' elevators in the spring wheat area of the State with a view of finding possibilities of bettering their organization, lowering their costs, and improving their services. AREA COVERED, The spring wheat area extending across the northern part of the State. TIME, Records beginning with 1919 crop on 15 elevators, and with 1926 crop on 25 elevators. BEGUN, 1925. PHASES COMPLETED, None. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1932.

VIRGINIA - Livestock marketing costs.

LEADERS, H. N. Young and P. L. Fletcher. OBJECTIVE, To determine the costs and the factors affecting the costs of marketing Virginia livestock. AREA COVERED, Southwest Virginia and the Valley of Virginia. TIME, 2 years. BEGUN, September 15, 1929. PHASES COMPLETED, All data collected. Data on cattle and sheep analyzed. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, November, 1931.

AGRICULTURAL ECONOMICS

MARKETING - COOPERATIVE MARKETING

STATE AGRICULTURAL EXPERIMENT STATIONS

CALIFORNIA - Analysis of merchandising and sales policies of California Cooperative marketing associations.

AGRICULTURAL ECONOMICS - MARKETING - COOPERATIVE MARKETING

LEADER, E. A. Stokdyk. OBJECTIVE, To determine: 1. Factors to be considered in establishing grades and standards of effective merchandising. 2. The effectiveness of different advertising policies, including use of brand names and dealer service. 3. Factors to be considered and the weight to be given each in deciding how far to carry the product through the various trade channels. 4. Factors to be considered and the weight to be given each in deciding upon the combination of commodities to be handled by a particular organization. 5. The degree to which and means by which market supporting measures can be adopted profitably. 6. Factors to be considered in determining price policies for various types of sales and merchandising organizations. AREA COVERED, California and markets for California products. BEGUN, July 1, 1930. PHASES COMPLETED, 1. An analysis of conditions under which eggs are marketed in Los Angeles and of operations of the Poultry Producers of Southern California to determine whether there is need for a cooperative association to market eggs in southern California, and if so, the best form of organization and the best price and merchandising policies. (J. M. Timley). 2. A study of the status of cooperative poultry marketing in the San Joaquin Valley to determine whether or not it is advisable to strengthen the cooperatives in this area, and to develop methods of strengthening them if it is thought advisable to do so. Report mimeographed and presented to cooperative poultry marketing organizations in the territory.

KENTUCKY - Investigation of cooperative marketing and purchasing in Kentucky.

LEADERS, H. B. Price, D. G. Card, C. D. Phillips, and O. M. Farrington. OBJECTIVE, To make a study of cooperative buying and selling for the purpose of ascertaining the number and kinds of such organizations, the nature and volume of business transacted, the plan of organization and operation followed, results obtained, historical aspects of cooperative developments, legal features, court decisions and related questions. AREA COVERED, Kentucky. BEGUN, 1929. PHASES COMPLETED, Cooperative marketing of strawberries. PROBABLE COMPLETION, June, 1932.

MARYLAND - A study of local cooperative associations in Maryland.

LEADERS, S. H. DeVault, Paul Nystrom and the Federal Farm Board. OBJECTIVE, To determine the type of business, volume of business, growth, service rendered, products handled, financial condition, and costs of operation of local cooperatives, in order to put them on a sound and efficient basis. AREA COVERED, State of Maryland. BEGUN, July 1, 1930. PHASES COMPLETED, Complete study made of 43 cooperatives in Maryland. Tabulation of data made and presented to Federal Farm Board. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, July, 1932.

AGRICULTURAL ECONOMICS - MARKETING - COOPERATIVE MARKETING

NORTH CAROLINA - Methods and practices of cooperative associations in North Carolina.

LEADER, Joseph G. Knapp. OBJECTIVE, 1. To obtain accurate information relative to the marketing of North Carolina agricultural products, particularly through cooperative agencies. 2. To study in detail the methods and practices of typical cooperative marketing associations. AREA COVERED, North Carolina. TIME, 2 years. BEGUN, July, 1930. PHASES COMPLETED, Data gathered and field work in progress. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, July, 1932.

OHIO - Farmers attitude towards cooperative tobacco marketing in southwest Ohio.

LEADER, L. G. Foster. AREA COVERED, Southwest Ohio. TIME, 1931. BEGUN, 1931. PERCENTAGE COMPLETED, 87%. PROBABLE COMPLETION, 1931.

AGRICULTURAL ECONOMICS

MARKETING - TRANSPORTATION

BUREAU OF AGRICULTURAL ECONOMICS

Motor truck transportation of fruits and vegetables.

LEADERS, R. R. Pailthorp, Brice Edwards, and J. W. Park. BEGUN, January, 1930. PROBABLE COMPLETION, July 1, 1931.

Agricultural aspects of railroad consolidation.

LEADERS, Thor Hultgren, and George A. Lamb. BEGUN, January 1, 1930. PROBABLE COMPLETION, January 1, 1932.

The new grain rate structure.

LEADERS, Thor Hultgren, and George A. Lamb. BEGUN, August 15, 1930. PROBABLE COMPLETION, March 15, 1932.

Milling western winter wheat in transit for export.

LEADERS, Thor Hultgren, and George A. Lamb. BEGUN, June 15, 1930. PROBABLE COMPLETION, January 1, 1932.

AGRICULTURAL ECONOMICS

MARKETING - LIVESTOCK

BUREAU OF AGRICULTURAL ECONOMICS

Trends and developments in methods and practices of marketing hogs.

LEADERS, C. A. Burmeister, Knute Bjorka, and Guy A. Peterson, and E. O. Swedberg. COOPERATION, (Informal) Division of C. & L. E., B. A. E. BEGUN, 1925. PROBABLE COMPLETION, 1931.

AGRICULTURAL ECONOMICS - MARKETING - LIVESTOCK

Wholesale meat marketing methods.

LEADERS, W. C. Davis and John A. Burgess. BEGUN, 1927. PROBABLE COMPLETION, Fall, 1931.

Retail meat marketing methods

LEADERS, W. C. Davis and John A. Burgess. BEGUN, December, 1928. PROBABLE COMPLETION, 1931.

Factors affecting the quality and palatability of beef.

LEADERS, L. B. Burk, D. J. Slater, and M. T. Foster. COOPERATION, B.A.I., B.H.E., and twenty State Experiment Stations. BEGUN, October, 1925. PROBABLE COMPLETION, Indefinite.

Market classes and grades of hides and skins

LEADERS, C. E. Gibbons and Melvin C. Romberger. BEGUN, 1927. PROBABLE COMPLETION, As standards based on all factors are established and promulgated.

Correlating hide and skin grades with the grades of their finished (tanned) products.

LEADERS, C. E. Gibbons, and M. C. Romberger. BEGUN, January 1, 1929. PROBABLE COMPLETION, December, 1931.

Market classes and grades of hogs.

LEADERS, C. E. Gibbons, D. J. Slater, L. B. Burk, and M. T. Foster. BEGUN, 1918. PROBABLE COMPLETION, Tentative standard grades will be ready April 1, 1930.

Market classes and grades of sheep.

LEADERS, L. B. Burk, and M. T. Foster. COOPERATION, Division of Animal Husbandry, B. A. I. BEGUN, 1918. PROBABLE COMPLETION, Revised descriptions of tentative standard grades will be ready July, 1931.

Market classes and grades of lambs.

LEADERS, L. B. Burk and M. T. Foster. COOPERATION, Division of Animal Husbandry, B. A. I. BEGUN, 1918. PROBABLE COMPLETION, Tentative standard grades will be ready July 1, 1930.

The factors which determine the standard grades of cattle and calves and their carcasses.

LEADERS, L. B. Burk and M. T. Foster. COOPERATION, B. A. I., B. H. E., West Virginia, Mississippi and Indiana Agricultural Experiment Stations. BEGUN, October, 1925. PROBABLE COMPLETION, 1931.

The factors which determine the standard grades of hogs and their carcasses.

LEADERS, L. B. Burk and M. T. Foster. COOPERATION, B. A. I., B. H. E., West Virginia, Mississippi, and Indiana Agricultural Experiment Stations. BEGUN, October, 1925. PROBABLE COMPLETION, 1931.

AGRICULTURAL ECONOMICS - MARKETING - LIVESTOCK

The factors which determine the standard grades of sheep and lambs and their carcasses.

LEADERS, L. B. Burk and M. T. Foster. COOPERATION, B.A.I., F.H.E., Stations of West Virginia, Mississippi, and Indiana. BEGUN, October, 1925. PROBABLE COMPLETION, 1931.

Market classes and grades of meat food products.

LEADERS, W. C. Davis and J. A. Burgess. BEGUN, 1928. PROBABLE COMPLETION, 1932.

Retail cuts and grades of lamb and mutton.

LEADER, W. C. Davis. BEGUN, June, 1929. PROBABLE COMPLETION, 1931.

Standardization of classes of wool on basis of length of staple.

LEADERS, George T. Willingmyre and D. W. Willingmyre. BEGUN, 1920. PROBABLE COMPLETION, December 1, 1931.

Standardization of grades and classes of mohair.

LEADERS, George T. Willingmyre and Frank Grayson. BEGUN, 1923. PROBABLE COMPLETION, 1932.

Seasonal variation in market supplies of beef cattle of different classes and grades.

LEADERS, C. A. Burmeister and Kenneth Myers. COOPERATION, Division of C. & L. E., and Division of F. M. & C., B. A. E. BEGUN, 1921. PROBABLE COMPLETION, Indefinite.

Study of retail prices of meats and development of methods for reporting prices.

LEADERS, C. A. Burmeister, A. T. Edinger, B. F. McCarthy, and J. S. Campbell. BEGUN, February, 1931. PROBABLE COMPLETION, First report probably ready October, 1931.

Sales prices of purebred livestock.

LEADERS, L. B. Burk and E. M. Jordan. BEGUN, 1922. PROBABLE COMPLETION, Price reports summarizing the data obtained through these surveys are issued annually.

Shrinkage of wool in scouring process.

LEADERS, G. T. Willingmyre and L. A. Wood. COOPERATION, Division of C. M. through use of laboratory and equipment. BEGUN, 1923. PROBABLE COMPLETION, Preliminary results will be available in 1931.

Moisture content and regain of wool.

LEADERS, G. T. Willingmyre and Werner A. Mueller. COOPERATION, Division of C. M. through use of laboratory and equipment. BEGUN, 1928. PROBABLE COMPLETION, Preliminary results will be available in 1931.

AGRICULTURAL ECONOMICS - MARKETING - LIVESTOCK

STATE AGRICULTURAL EXPERIMENT STATIONS

ILLINOIS - Truck vs. rail in marketing Illinois livestock.

LEADER, R. C. Ashby. OBJECTIVE, To secure dependable information on important problems involved in problem of truck vs. rail transportation. AREA COVERED, State-wide. TIME, 1927-1931. BEGUN, 1927. PHASES COMPLETED, Practically all. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, 1931.

ILLINOIS - Local Illinois livestock markets.

LEADERS, R. C. Ashby, and H. P. Rusk. OBJECTIVE, To secure comprehensive data on local Illinois livestock markets, advantages they may afford shippers, larger problems involved. AREA COVERED, State-wide. TIME, Started in 1931. BEGUN, Field work started fall of 1931. PROBABLE COMPLETION, 1933.

ILLINOIS - Marginal territories in relation to terminal livestock markets.

LEADER, R. C. Ashby. OBJECTIVE, To develop clear understanding of factors determining choice and relative advantages between markets from shippers' standpoint. AREA COVERED, State-wide. BEGUN, Field work started 1930. PHASES COMPLETED, Changing conditions make further expenditure on this project doubtful at this time. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, In doubt.

INDIANA - Hog marketing investigations:

Sub Project 1. Cause of losses and shrinks.

Sub Project 2. Relative cost of shipping to different markets.

LEADER, J. R. Wiley. OBJECTIVE, Study demands of various markets for different cuts and qualities of pork--prices paid, etc. 1. To determine the cause of losses and shrink in hogs and develop ways and means of preventing same. 2. To determine the relative cost of shipping hogs to Indianapolis, Cincinnati, Cleveland, Buffalo, Pittsburgh, Chicago, and Detroit, in order that shippers in Indiana may have definite information on which to base their judgment as to the most profitable market to which to consign hogs. AREA COVERED, Central market, commission firms, consignor, shipping associations, individual shippers, railroad companies, commission men, packers, and other agencies in obtaining information on losses and shrinks. Indiana and its tributary markets. BEGUN, July 1, 1925. PHASES COMPLETED, Bulletin No. 318 entitled, "Death and cripple losses in shipping hogs to market". PERCENTAGE COMPLETED, Indefinite. PROBABLE COMPLETION, Indefinite.

IOWA - Packer demand for Iowa hogs.

LEADER, P. L. Miller. OBJECTIVE, Investigation of market distribution of Iowa hogs. Types of packers and locations, types of hogs slaughtered,

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variations in requirements, dressing and cutting yields of Iowa hogs, quality and firmness of pork from Iowa hogs. AREA COVERED, Three types of packers slaughtering Iowa hogs, public market and eastern fresh pork slaughterers. TIME, Attention centered upon present situation. Limited attention to developments of past ten years. BEGUN, July 1, 1931. PHASES COMPLETED, Investigational work planned and preliminary phases completed. Schedules prepared for securing additional information from a representative list of packers. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, July 1, 1933

IOWA - Analysis of marketing movements of hogs in selected localities.

LEADER, P. L. Miller. OBJECTIVE, To discover the number and character of market outlets for hogs in a given community and the extent to which all possible outlets are represented in the hog trade of the community. Classify types of buyers and relative importance. Discover the effectiveness of cooperative marketing agencies in the locality - what manner they are advantageous to their members. AREA COVERED, A few selected localities defined by the influence or reach of dominant trade centers. TIME, 4 years. BEGUN, July 1, 1931. PHASES COMPLETED, Only a partial study of the territory tributary to one center. PERCENTAGE COMPLETED, Only begun. PROBABLE COMPLETION, June 30, 1932.

IOWA - Analysis of livestock shipments by markets and analysis of prices received by shipping associations.

LEADER, P. L. Miller. OBJECTIVE, To show the effectiveness with which cooperative marketing associations are choosing markets and securing outlets for their livestock. AREA COVERED, Selected associations in central and north central Iowa. TIME, 3 years. BEGUN, July 1, 1931. PHASES COMPLETED, Price differentials of representative markets analyzed 1920-30. Preliminary analysis of the operations of a small group of associations. PROBABLE COMPLETION, June 30, 1933.

IOWA - Direct packer buying in livestock buying.

LEADER, P. L. Miller. OBJECTIVE, To trace the development of direct packer buying in Iowa; to explain the reason for its development; to describe its technique; and to relate it to farm marketing. AREA COVERED, The corn-belt with principal attention to Iowa. TIME, Post-war. BEGUN, July 1, 1931. PHASES COMPLETED, Data gathered and mostly analyzed. PERCENTAGE COMPLETED, All except preparation of manuscript. PROBABLE COMPLETION, July 1, 1932.

IOWA - Seasonal fluctuations in marketing Iowa hogs.

LEADER, P. L. Miller. OBJECTIVE, Find the characteristics of seasonal fluctuations in the marketing of Iowa hogs, for the State as a whole, and for various regions of the State. To discover the factors and con-

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siderations influencing these fluctuations. To estimate the elasticity of seasonal supplies of hogs. AREA COVERED, Iowa. TIME, 1920-30. BEGUN, July 1, 1931. PHASES COMPLETED, All primary data tabulated and partially analyzed - Supplementary data partly prepared - Manuscript outlined. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, July 1, 1932.

IOWA - Use of the motor truck in livestock marketing. Its developments.

LEADERS, P. L. Miller and D. A. FitzGerald. OBJECTIVE, 1. To determine the relative cost of truck transportation. 2. To determine the methods of preparing hogs for markets at the farm. 3. To determine the economical livestock trucking radius. 4. To determine the effects of types of roads. 5. The effect on response of receipts to changes in prices paid. AREA COVERED, Primarily Iowa. TIME, End of 1932. BEGUN, It has gradually evolved during the last 5 years. PHASES COMPLETED, None. A yearly report is published entitled, "Statistics of Livestock Trucking in Iowa", Circular No. 128. PERCENTAGE COMPLETED, Part 1 of the project is approximately 1/3 completed. Part 3 and 5 have been started. PROBABLE COMPLETION, 1932.

KANSAS - The marketing of Kansas livestock and livestock products.

LEADER, Homer J. Henney. OBJECTIVE, Determine economic factors that will benefit livestock industry of Kansas. AREA COVERED, Kansas. TIME, 6 years. BEGUN, June, 1925. PHASES COMPLETED, Phase 1 on organizations engaged in marketing livestock. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, 1935.

KENTUCKY - Investigation of livestock marketing.

LEADERS, H. B. Price and C. D. Phillips. OBJECTIVE, To make a study of marketing Kentucky livestock, regions of production, methods of marketing at local and central markets, movements to market, feeders, local sales, price comparisons and related questions having a bearing on the livestock marketing problems of Kentucky. AREA COVERED, Livestock markets of Kentucky. BEGUN, 1926. PHASES COMPLETED, Livestock marketing organizations, auction markets, and relation of quality to price of lambs. PERCENTAGE COMPLETED, One-half of present study. PROBABLE COMPLETION, June, 1932.

MINNESOTA - Marketing of farm products.

Sub Project C. - Organization for selling livestock in the central livestock market.

Sub Project D. - Local concentration of livestock in Minnesota.

LEADER, E. C. Johnson, leader of Sub Projects C and D. OBJECTIVE, To help cooperative agencies already in the field with their problems; to work preliminary studies to serve as a basis for new organizations; to help in improving the marketing system in general. AREA COVERED, Minnesota.

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BEGUN, July 1, 1925. PHASES COMPLETED, Study of trucking of livestock to South St. Paul. PROBABLE COMPLETION, A continuing project. Study of problems of local shipping associations to be completed about July 1, 1932.

MISSOURI - Marketing livestock.

LEADERS, F. L. Thomsen, and W. R. Fankhanel. OBJECTIVE, To study the evolution of livestock marketing methods with the advent of hardsurfaced roads and improved transportation and the possible effect of this evolution on the marketing agencies in the State. AREA COVERED, Entire State. TIME, 1930-31. BEGUN, 1930. PHASES COMPLETED, Most of field work. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, July, 1932.

MISSOURI - Seasonal hog marketings.

LEADER, F. L. Thomsen. OBJECTIVE, To find the distribution of marketing through the year and possible gains either in price or cost of production by modifying this distribution. AREA COVERED, Entire State. TIME, 1 year. BEGUN, July 1, 1930. PHASES COMPLETED, Tabulations of seasonal movement as complete as available data will allow. All field work completed. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, July 1, 1932.

NEBRASKA - Transporting livestock to market.

LEADERS, H. J. Gramlich and H. C. Filley. OBJECTIVE, Comparative cost of transporting livestock from farm to market. AREA COVERED, Selected shipping points. TIME, May, 1931 to present. BEGUN, May, 1931. PHASES COMPLETED, None to date.

NORTH DAKOTA - Seasonal movement of cattle to market.

LEADERS, A. H. Benton, and H. G. Anderson. OBJECTIVE, To determine movement of cattle to market with classes and grades. AREA COVERED, State of North Dakota. TIME, 1929-30-31. BEGUN, December, 1929. PHASES COMPLETED, Data for the years 1929 and 1930 nearly completed. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, January 1, 1933.

NORTH DAKOTA - Marketing North Dakota wool.

LEADER, A. H. Benton. OBJECTIVE, To determine methods and practices of marketing wool in North Dakota. AREA COVERED, North Dakota. TIME, 10 years, 1920-1930. BEGUN, January, 1930. PHASES COMPLETED, All data secured. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, December 1, 1931.

OHIO - Factors influencing the packer yield of hogs.

LEADER, G. F. Henning. OBJECTIVE, To determine the influence of various factors upon the dressing percent of hogs. AREA COVERED, Ohio. TIME, 1930.

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BEGUN, 1930. PHASES COMPLETED, Collecting data and preliminary tabulation. PERCENTAGE COMPLETED, 87%. PROBABLE COMPLETION, 1931.

VIRGINIA - Marketing hogs.

LEADERS, H. N. Young and P. L. Fletcher. OBJECTIVE, To determine costs and ways of reducing marketing costs. Also to determine factors affecting prices. AREA COVERED, Southwest Virginia and the Valley of Virginia. BEGUN, July 1, 1931. PHASES COMPLETED, Price analysis. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, June, 1932.

WEST VIRGINIA - Methods and practices of marketing livestock.

Sub Project. The efficiency of cooperative livestock shipping associations in West Virginia.

LEADER, W. W. Armentrout. OBJECTIVE, To determine the efficiency of the operations of cooperative shipping associations in West Virginia. AREA COVERED, The more important livestock production areas covering 22 counties of the State. TIME, 4 years. BEGUN, July, 1928. PHASES COMPLETED, All work completed except publication of manuscript. PERCENTAGE COMPLETED, 99%. PROBABLE COMPLETION, March, 1932.

INDEPENDENT INSTITUTIONS

UNIVERSITY OF TEXAS - Texas rail movements of livestock by geographic areas.

LEADER, Dr. F. A. Buechel. OBJECTIVE, Includes studies on cattle and calves, sheep and goats, wool and mohair. TIME, 1929-1932.

AGRICULTURAL ECONOMICS

MARKETING - DAIRY PRODUCTS

BUREAU OF AGRICULTURAL ECONOMICS

Standardization and grading of butter and cheese.

LEADERS, Roy C. Potts and C. E. Eckles. BEGUN, July 1, 1927. PROBABLE COMPLETION, December 30, 1931.

Per capita consumption of dairy and poultry products in rural areas.

LEADER, T. R. Pirtle. COOPERATION, Division of C. & L. E., and Division of S. and H. R., B. A. E. BEGUN, February 1, 1928. PROBABLE COMPLETION, September 1, 1931. (SEE ALSO, Marketing - Poultry)

Urban per capita consumption of milk and cream.

LEADER, T. R. Pirtle. COOPERATION, Informal cooperation with City Boards of Health; large milk distributors; and milk production associations. BEGUN, March 1, 1928. PROBABLE COMPLETION, October 30, 1931.

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Baltimore dairy products survey.

LEADER, Alexander Sturges. COOPERATION, University of Maryland and Baltimore Dairy Council. BEGUN, June 15, 1930. PROBABLE COMPLETION, June 15, 1931.

Metropolitan Boston dairy products survey.

LEADERS, Frederick V. Waugh and Alexander Sturges. COOPERATION, Massachusetts Department of Agriculture, Massachusetts Agricultural Experiment Station, New Hampshire Agricultural Experiment Station, and New England Research Council on marketing of foods, New England Dairy Council. BEGUN, December 1, 1930. PROBABLE COMPLETION, June 30, 1931.

Consumption of cheese and eggs in New York City.

LEADER, E. E. Vial. COOPERATION, Data collected by New York Marketing Research Council and B. A. E., 1929-30, are being used as a basis for this analysis. BEGUN, January, 1930. PROBABLE COMPLETION, Uncertain. (SEE ALSO, Marketing - Poultry)

Foreign competition and demand as affecting the dairy industry of the United States. (SEE Sub Projects, "The dairy industry of New Zealand", and "The dairy industry of Australia").

OBJECTIVE, The major project involves the preparation of a bulletin. The sub-projects involve the preparation of mimeographed monographs for each of the important competing countries or areas. LEADER, P. F. Brookens. BEGUN, December 1, 1920. PROBABLE COMPLETION, December 30, 1932.

The dairy industry of New Zealand. (This is a sub project of the major project entitled, "Foreign competition and demand as affecting the dairy industry of the U. S.").

LEADER, P. F. Brookens. BEGUN, September, 1929. PROBABLE COMPLETION, April 1, 1931.

The dairy industry of Australia. (This is a sub project of the major project entitled, "Foreign competition and demand as affecting the dairy industry of the U. S.").

LEADER, P. F. Brookens. BEGUN, March 15, 1931. PROBABLE COMPLETION, September 1, 1931.

Elasticity of supply of milk for Baltimore and Maryland.

LEADER, O. V. Wells. BEGUN, June, 1926. PROBABLE COMPLETION, December 31, 1932.

STATE AGRICULTURAL EXPERIMENT STATIONS

CALIFORNIA - A study of the East Bay milk market. (Oakland, Berkeley, and adjoining municipal areas).

LEADER, J. M. Tinley. OBJECTIVE, To ascertain the factors that should be considered in establishing the price of market milk in the East Bay area,

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and methods and policies of determining milk prices that will be equitable to producers, distributors and consumers. AREA COVERED, East Bay metropolitan area and 15 counties from which market milk is supplied to the area. TIME, 1925 to 1931. BEGUN, February, 1931. PHASES COMPLETED, Collection of information and preliminary analysis completed. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, November, 1931.

IDAHO - A study of the prices, marketing and markets of the dairy products of Idaho.

LEADER, C. O. Youngstrom. OBJECTIVE, To determine the manner and methods of marketing dairy products in Idaho. To determine the prices paid in the various parts of the State and by various parts of the State and by various agencies. AREA COVERED, The State. TIME, January 1, 1929 to January 1, 1931 for data used. BEGUN, January, 1930. PHASES COMPLETED, All tabulations completed of price data, and large part of analysis completed. Agricultural economics work done but Dairy Department still has some to complete. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, January 1, 1932.

ILLINOIS - Methods of handling milk-surplus control problems.

LEADERS, R. W. Bartlett and C. A. Brown. OBJECTIVE, To work out standards which can be used as basis for price-bargaining operations. AREA COVERED, Illinois and other milk marketing areas. TIME, 16 months. BEGUN, April, 1930. PHASES COMPLETED, Price plans for marketing milk and operations of price plans in selected Illinois markets. PERCENTAGE COMPLETED, Indefinite. PROBABLE COMPLETION, Indefinite.

ILLINOIS - An economic study of cream marketing.

LEADER, C. A. Brown. OBJECTIVE, To assist in improving present cream marketing methods. AREA COVERED, A detailed survey in Illinois and a general study of certain other cream producing sections in U. S. and Canada. TIME, Several years. BEGUN, 1925. PHASES COMPLETED, Quality. PERCENTAGE COMPLETED, Indefinite. PROBABLE COMPLETION, Indefinite.

INDIANA - A study of the producers method of disposing of milk and dairy products and the returns secured.

LEADERS, R. D. Canan and V. C. Menhart. OBJECTIVE, 1. To study the methods and channels that are being used to dispose of milk and milk products of Indiana farms. 2. To study different systems of transportation of milk and milk products from the farm, and the available market for milk and milk products produced in the locality. 3. To study the kind, quality and amount of milk and dairy products demanded by each territory studied. AREA COVERED, Dairy farmers, farm management depart-

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ment and marketing specialists, managers or owners of dairy and creamery plants, where the dairy products are sold, county agents and local leaders over the State. TIME, Indefinite. BEGUN, December 12, 1925. PERCENTAGE COMPLETED, Indefinite. PROBABLE COMPLETION, Indefinite.

KANSAS - A study of the principles governing the marketing of dairy products in Kansas.

LEADER, George Montgomery. OBJECTIVE, To determine the principle governing the marketing of Kansas dairy products, the adaptability of various types of organizations to marketing Kansas dairy products, the desirability of existing and proposed marketing methods, the factors affecting the prices of dairy products, and ways in which the marketing of Kansas dairy products might be improved. AREA COVERED, State of Kansas, and in markets for Kansas dairy products, and in competing regions. TIME, Indefinite. BEGUN, April, 1931. PERCENTAGE COMPLETED, Survey of local cooperative creameries. PERCENTAGE COMPLETED, 4%. PROBABLE COMPLETION, 1940 for phases now planned.

MARYLAND - Quantitative study of factors affecting consumption of dairy products in Baltimore.

LEADERS, S. H. DeVault, O. C. Stine, and W. H. Harper. OBJECTIVE, To determine the amount of milk consumed by different age, nationality, occupational, racial and income groups; factors affecting the consumption of milk; reasons for the low per capita consumption of milk in Baltimore; the relationship of the consumption of milk to the health of the people; and the most effective ways of advertising milk. To determine the amounts of other dairy products consumed by different nationality, occupational, racial and income groups; factors affecting the consumption of other dairy products; and the extent to which butter substitutes are being used and the reasons why they are used. AREA COVERED, 2,000 families in Baltimore City. TIME, 1930-31. Actual enumeration completed in 1930. Data being tabulated in U. S. D. A. BEGUN, May 1, 1930. PHASES COMPLETED, Enumeration and tabulation of results. PERCENTAGE COMPLETED, 83%. PROBABLE COMPLETION, 1931.

MASSACHUSETTS - Competitive factors influencing the supply of market milk and cream in Massachusetts.

LEADER, Adrian H. Lindsey. OBJECTIVE, To discover and analyse the conditions which determine the supply of milk and cream available for the various Massachusetts markets from sources both within and without the State. AREA COVERED, New England, New York, and all sources of Massachusetts milk supply. BEGUN, 1928. PHASES COMPLETED, Data collected, some tabulations and charts done. PROBABLE COMPLETION, 1932.

AGRICULTURAL ECONOMICS - MARKETING - DAIRY PRODUCTS

MINNESOTA - Marketing farm products.

Sub Project B. Organization and management problems of local creameries in Minnesota.

LEADER, O. B. Jesness. OBJECTIVE, To study competitive relations among local creameries in Minnesota in order to determine more specifically what the situation is and to evolve plans for overcoming unnecessary conflict. AREA COVERED, Local cooperative creameries in Minnesota. TIME, Started July 1, 1925 and certain phases completed by July 1, 1927. No progress 1928-29. Present phase started July 1, 1930. BEGUN, Present phase, July 1, 1930. PHASES COMPLETED, Phases covering methods of measuring creamery efficiency. PROBABLE COMPLETION, Indefinite.

NEW HAMPSHIRE - A study of the consumption of milk and dairy products.

(Cooperating with Massachusetts State Department of Agriculture, New England Dairy and Food Council, New England Research Council on Marketing and Food Supply, and B. A. E. of U. S. D. A.) LEADERS, E. H. Rinear with F. V. Waugh of B. A. E. OBJECTIVE, To study consumption of milk and dairy products in the metropolitan Boston area. AREA COVERED, Metropolitan Boston. TIME, 1930-31. BEGUN, December, 1930. PHASES COMPLETED, Field work and manuscript. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, September, 1931.

NEW YORK CORNELL - Studies of milk marketing.

Sub Project No. 2. Study of the New York City milk supply and the dairy industry within the New York milk shed.

LEADER, L. Spencer. OBJECTIVE, To study: 1. The present supply of milk in the New York Milk Shed. 2. The possibilities of increasing the proportion of winter milk. 3. The possibilities of increasing the total production of the present dairies. 4. The possibility of increasing dairying in the undeveloped regions of the territory. 5. Possibility of competition from other dairy regions. 6. Territory where new plants might be established, and quantity and quality of such supplies of milk, cost of transportation and handling.

NORTH DAKOTA - Methods of marketing dairy products in North Dakota.

LEADERS, A. H. Benton, J. R. Dice, O. A. Barton, and Rex E. Willard. (Completed with the publication of Bulletin No. 238 entitled, "Cooperative marketing of dairy products.")

OHIO - The relation of buying plan to butter fat content of milk.

LEADER, C. G. McBride. AREA COVERED, Ohio. TIME, 1927-28-29-30-31, etc. BEGUN, 1929. PHASES COMPLETED, Data collected and tabulated up to 1931.

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PERCENTAGE COMPLETED, 66-2/3%. PROBABLE COMPLETION, 1932.

OHIO - Buying plan for milk.

LEADER, C. G. McBride. OBJECTIVE, A critical study of various milk buying plans in the U. S. AREA COVERED, United States. TIME, Since 1929. BEGUN, 1929. PHASES COMPLETED, Data for 1929 and 1930 completed. PROBABLE COMPLETION, Continuous.

OHIO - Market milk areas of northern Ohio.

LEADER, C. G. McBride. OBJECTIVE, To determine potential and actual milk supply tributary to various northern Ohio markets, and market requirements. AREA COVERED, Northern 1/2 of Ohio. TIME, 1931. BEGUN, 1931. PHASES COMPLETED, Collecting data. PERCENTAGE COMPLETED, 66-2/3%. PROBABLE COMPLETION, 1932.

PENNSYLVANIA - The marketing of milk.

LEADERS, F. P. Weaver and F. F. Lininger. OBJECTIVE, Study the methods used in marketing milk in Pennsylvania, the costs of certain operations involved, the problems confronting the cooperative milk producers organizations of the State, the potential supply of milk of Pennsylvania cities and the price differentials for fat, bacteria count, secondary markets, production zones, etc. AREA COVERED, All of Pennsylvania and parts of adjoining States shipping milk into Pennsylvania. The latter is cooperating with the Experiment Stations in those States. TIME, 6 years to date. Study will be continued. BEGUN, 1925. PHASES COMPLETED, Milk marketing plans, shipping station costs, problems of adjusting milk production to basic surplus, plan of selling price, plans for collection, bargaining organizations, membership problems, and factors affecting milk consumption in Philadelphia.

RHODE ISLAND - An economic study of the production and distribution of milk in relation to Rhode Island conditions.

LEADER, R. B. Corbett. OBJECTIVE, To study sources, seasonal variation and factors influencing supplies, and factors influencing distribution and demand of milk and cream. AREA COVERED, Providence market, mainly. TIME, Different phases will cover varying periods. BEGUN, 1927. PHASES COMPLETED, None. PERCENTAGE COMPLETED, 5%.

VERMONT - Elasticity of supply of Vermont dairy products.

LEADER, H. P. Young. OBJECTIVE, To study factors affecting supply of milk in Vermont. AREA COVERED, Vermont. TIME, 1916 to 1931 - some data extended back to 1894. BEGUN, 1926. PHASES COMPLETED, Purchasing power of

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milk in terms of price of purchased feed on deliveries at plants. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, Will need five years more study.

VERMONT - Milk marketing beyond State borders.

LEADER, H. P. Young. OBJECTIVE, To study milk marketing policies of dealers and cooperatives in the city markets of the United States with especial reference to price policies. AREA COVERED, Milk markets in United States. TIME, Recent years. BEGUN, 1929. PERCENTAGE COMPLETED, 10%.

VIRGINIA - The market distribution of Virginia dairy products.

LEADERS, H. N. Young and J. L. Maxton. OBJECTIVE, To determine the methods and costs of distributing Virginia dairy products and to discover ways of improving the present marketing system. AREA COVERED, The State of Virginia. TIME, July 1, 1930. BEGUN, July 1, 1930. PHASES COMPLETED, Marketing of fluid milk. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, September, 1931.

WISCONSIN - A study of the efficiency in management, and operation of various types of plants manufacturing cheese in Wisconsin.

LEADER, Henry H. Bakken. OBJECTIVE, To determine the most efficient types and size plants for the manufacture of cheese. AREA COVERED, Cheese factories and plants in various sections of the State. TIME, About 2 years. BEGUN, November 15, 1930. PHASES COMPLETED, Costs of operation on several plants have been tabulated. Statements for approximately 200 cheese factories have been obtained, tabulated as supplementary information to the more detailed analysis of the new factories. PERCENTAGE COMPLETED, 33-1/3%. PROBABLE COMPLETION, June 1, 1932.

WISCONSIN - Determination of the factors influencing the marketing of fluid milk in Wisconsin.

LEADERS, R. K. Froker and W. P. Mortenson. OBJECTIVE, To determine the sources, movements, and destinations of fluid milk produced in Wisconsin, and to discover the economic influences responsible therefor. AREA COVERED, State of Wisconsin, with special emphasis on West Shore Lake, Michigan. TIME, 1928-1933. BEGUN, June, 1928. PHASES COMPLETED, Area involving the Milwaukee (Wisconsin) milk shed and, in a less intensive manner, nearby areas. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, 1933.

AGRICULTURAL ECONOMICS

MARKETING - POULTRY PRODUCTS

BUREAU OF AGRICULTURAL ECONOMICS

Egg standardization and grading.

LEADERS, Rob R. Slocum, George H. Powers, and T. W. Heitz. BEGUN, July 1, 1925. PROBABLE COMPLETION, June 30, 1931.

Construction, equipment and operation of poultry and egg packing plants.

LEADERS, Rob R. Slocum and T. W. Heitz. COOPERATION, B. P. R. BEGUN, July 1, 1926. PROBABLE COMPLETION, June 30, 1932.

Standardization and grading of live poultry.

LEADERS, Rob R. Slocum and T. W. Heitz. BEGUN, April 1, 1927. PROBABLE COMPLETION, December 30, 1931.

Standardization and grading of dressed poultry.

LEADERS, T. W. Heitz and Rob R. Slocum. BEGUN, July 1, 1927. PROBABLE COMPLETION, December 30, 1931.

How eggs may be marketed by producers on a quality or graded basis.

LEADERS, Rob R. Slocum and George H. Powers. BEGUN, January 1, 1928. PROBABLE COMPLETION, June 30, 1931.

Per capita consumption of dairy and poultry products in rural areas.

LEADER, T. R. Pirtle. COOPERATION, Divisions of C. & L. E., and, S. & H. R., B. A. E. BEGUN, February 1, 1928. PROBABLE COMPLETION, September 1, 1931.
(SEE ALSO, Marketing - Dairy Products)

Consumer habits and preferences regarding eggs in New Jersey and measurement of the factors influencing the price of eggs.

LEADER, Rob R. Slocum. COOPERATION, New Jersey Agricultural Experiment Station. BEGUN, May 1, 1928. PROBABLE COMPLETION, July 1, 1931.

Consumer preferences and demands for eggs in Chicago, Boston, New York and Washington.

LEADERS, Roy C. Potts, Rob R. Slocum, George H. Powers and others. COOPERATION, Illinois Agricultural Experiment Station and other agencies. PROBABLE COMPLETION, September 30, 1931.

Consumption of cheese and eggs in New York City.

LEADER, E. E. Vial. COOPERATION, Data collected by New York Marketing Research Council and B. A. E., 1929-30 are being used as a basis for this analysis. BEGUN, January, 1930. PROBABLE COMPLETION, Uncertain. (SEE ALSO, Marketing - Dairy Products).

AGRICULTURAL ECONOMICS - MARKETING - POULTRY PRODUCTS

ILLINOIS - A study of consumer demand for eggs.

LEADERS, F. E. Elliott and L. E. Card. OBJECTIVE, To determine the extent and character of consumer preference for various grades of eggs. AREA COVERED, Chicago and nearby territory. TIME, 1929-1931. BEGUN, 1929. PHASES COMPLETED, All field work completed. Compilation practically completed. Final reports to be made. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, 1931.

INDIANA - The marketing of eggs on a quality basis in Indiana.

LEADERS, C. W. Carrick and E. R. Menefee. OBJECTIVE, To ascertain the methods of handling eggs on a quality basis and the results obtained through the use of such methods. AREA COVERED, Certain localities of the State in which agencies are buying eggs on a quality basis. Local buyers who buy eggs on a graded basis. Data to be obtained from the various phases. Managers or owners of produce stations or other agencies where eggs are purchased from the producers. Egg producers, farm management department and marketing specialists. TIME, Indefinite. BEGUN, August, 1926. PHASES COMPLETED, The marketing of eggs on a graded basis, November, 1929. PROBABLE COMPLETION, Indefinite.

IOWA - Market analysis of egg and poultry trade in selected communities and state wide.

LEADER, W. D. Termohlen. OBJECTIVE, Disclose trade conditions that confront farmers in local markets and the practices which will enable them to dispose of their produce under existing or improved conditions, most economically and satisfactorily. AREA COVERED, Selected communities in Iowa. TIME, 1929-31. BEGUN, August 1, 1931. PHASES COMPLETED, Statistical survey of poultry industry by survey and census data - 1929. Outlets used and available for Iowa Poultry Products - 1930. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, July 1, 1932.

MARYLAND - Consumer preference and market demand for eggs in Washington, D.C.

LEADERS, S. H. DeVault, S. B. Shaw, and Paul Raper. OBJECTIVE, To determine the quality of eggs preferred by consumers in different sections of Washington, D. C. AREA COVERED, 18 retail stores located in 6 sections of Washington, D. C. TIME, May, 1931 to June, 1932. BEGUN, May, 1931. PHASES COMPLETED, None. Records will be obtained from same stores for about 6 months. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, 1932.

AGRICULTURAL ECONOMICS - MARKETING - POULTRY PRODUCTS

MASSACHUSETTS - Supply and distribution of market eggs.

LEADER, Lorian P. Jefferson. OBJECTIVE, To find what kinds of eggs are being sold by the retailers and what demands are made by consumers. AREA COVERED, Massachusetts. TIME, 3 years. BEGUN, 1928. PHASES COMPLETED, Data collected, tabulations nearly completed. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1932.

MASSACHUSETTS - Market prices of poultry and eggs.

LEADER, Adrian H. Lindsey. OBJECTIVE, To find the tendencies in poultry and egg prices in the same areas at different seasons of the year, and over a period of years. AREA COVERED, Boston, Worcester, Springfield. TIME, Some data from 1905. BEGUN, 1926. PHASES COMPLETED, Data collected, manuscript nearly finished. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, 1931.

NEW MEXICO - The determination of the market quality of New Mexico eggs.

LEADERS, A. L. Walker, L. N. Berry and W. N. Ginn. OBJECTIVE, 1. To determine the market qualities of eggs produced in surplus areas of New Mexico and to note the effect of the age of eggs, the temperature at which they were held and the feeding practices on their market qualities. 2. To measure the economic importance of the above mentioned factors. 3. To ascertain whether eggs produced in New Mexico during spring and summer can be marketed advantageously by grade. AREA COVERED, Eastern portion of New Mexico. TIME, Spring of 1929 to June, 1933. BEGUN, Spring of 1929. PHASES COMPLETED, 2 years field work and tabulation of data. PERCENTAGE COMPLETED, 65%. PROBABLE COMPLETION, June, 1933.

RHODE ISLAND - An economic study of production, distribution, and consumption of poultry products under Rhode Island conditions.

LEADER, R. B. Corbett. OBJECTIVE, To determine market preferences, methods of distribution and efficient poultry farm management. AREA COVERED, Rhode Island. TIME, Different phases will cover varying periods. BEGUN, 1928. PERCENTAGE COMPLETED, None.

UTAH - Economic factors affecting the production and marketing of Utah's poultry products.

LEADER, W. P. Thomas. OBJECTIVE, To study production, price and marketing factors as they relate to Utah's poultry industry. (This project is but one phase of a study being made of the poultry industry in Utah. In 1929 when the project was begun, the Department of Cooperative Marketing of B. A. E. (Now of Federal Farm Board) began a business analysis study of

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Utah Poultry Producers Association. Detailed report of this phase of the project can be secured from Mr. J. J. Scanlan, of the Farm Board). AREA COVERED, Cache, Box Elder, Morgan, Summit, Davis, Salt Lake and Utah Counties. TIME, 3 years. BEGUN, 1929. PHASES COMPLETED, Farm management analysis of the farm and poultry business in Utah for the past two years has been made. Analysis of egg and feed prices has also been made for a series of years. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, Summer, 1932.

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An economic study of the eastern grape situation.

LEADERS, R. R. Pailthorp, A. W. McKay, M. R. Cooper and J. W. Strowbridge. COOPERATION, Division of F. M. & C., Division of Cooperative Marketing, Federal Farm Board., New York State Agricultural Experiment Station. BEGUN, June 15, 1929. PROBABLE COMPLETION, September, 1931.

United States Standards for cannery cherries.

LEADERS, R. R. Pailthorp, and W. E. Lewis. BEGUN, July, 1929. PROBABLE COMPLETION, June, 1931.

United States Standards for cannery snap beans.

LEADERS, R. R. Pailthorp, W. E. Lewis, and W. E. Leigh. BEGUN, July 23, 1929. PROBABLE COMPLETION, December, 1931.

United States Standards for fresh prunes.

LEADER, R. R. Pailthorp. BEGUN, October, 1930. PROBABLE COMPLETION, June, 1931.

United States Standards for apples.

LEADER, R. R. Pailthorp. BEGUN, January 1, 1930. PROBABLE COMPLETION, July 15, 1931.

United States Standards for Faba beans.

LEADERS, R. R. Pailthorp and William E. Leigh. COOPERATION, California State Department of Markets (Informal). BEGUN, January 1, 1931. PROBABLE COMPLETION, July 1, 1931.

United States Standards for fresh pears.

LEADERS, R. R. Pailthorp, W. E. Leigh, R. L. Spangler, and W. E. Lewis. BEGUN, January 15, 1931. PROBABLE COMPLETION, June 1, 1931.

United States Standards for cannery peas.

LEADERS, R. R. Pailthorp and W. E. Lewis. COOPERATION, New York State Department of Markets. BEGUN, June, 1930. PROBABLE COMPLETION, June, 1932.

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United States Standards for cannery sweet corn.

LEADERS, R. R. Pailthorp and W. E. Lewis. COOPERATION, Maine Agricultural Experiment Station. BEGUN, September, 1930. PROBABLE COMPLETION, June, 1932.

United States Standards for northern grown onions.

LEADERS, R. R. Pailthorp and W. E. Lewis. BEGUN, September, 1930. PROBABLE COMPLETION, June, 1931.

United States Standards for cannery pears.

LEADERS, R. R. Pailthorp and W. E. Lewis. COOPERATION, New York State Department of Markets. BEGUN, June, 1931. PROBABLE COMPLETION, June, 1932.

Factors affecting the returns received by strawberry growers in Florida, North Carolina, Tennessee, Kentucky, Alabama, Missouri, Arkansas, Louisiana, New Jersey, Virginia, and Maryland.

LEADERS, M. R. Cooper and A. P. Brodell. COOPERATION, Florida, Arkansas, Missouri, and Tennessee Agricultural Experiment Stations. also, North Carolina, Virginia, and New Jersey Agricultural Experiment Stations. BEGUN, July 14, 1928. PROBABLE COMPLETION, December, 1931.

STATE AGRICULTURAL EXPERIMENT STATIONS

CALIFORNIA - Marketing California artichokes.

LEADER, E. A. Stokdyk. OBJECTIVE, 1. To determine the trade channels for California artichokes in a. California markets and b. eastern markets. 2. To determine the trade practices employed in the marketing of California artichokes. 3. To determine the distribution of artichokes in eastern markets and the relation of the quantities received at the various markets to prices. 4. To determine the reasons for the situations found under 1. 2. and 3. 5. To determine the possibilities of improving the situations found under 1. 2. and 3. AREA COVERED, Coastal region of California and eastern markets. TIME, 6 months. BEGUN, April, 1931. PHASES COMPLETED, All except study of eastern markets and grower-shipper relations. PERCENTAGE COMPLETED, 85%. PROBABLE COMPLETION, December, 1931.

DELAWARE - A study of the marketing of Delaware early apples.

LEADER, Harry S. Gabriel. OBJECTIVE, To find better methods of marketing Delaware early apples, and to find consumer preferences. AREA COVERED, Delaware and eastern cities. TIME, 1930, 1931 and 1932. BEGUN, July 1, 1931. PHASES COMPLETED, None. PROBABLE COMPLETION, June, 1933.

DELAWARE - Study of the marketing of muskmelons.

LEADER, Harry S. Gabriel. OBJECTIVE, To find better methods of marketing Delaware muskmelons and to find consumer preferences. AREA COVERED, Dela-

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aware and Philadelphia, and other Eastern cities. TIME, 1928, 1929 and 1930. BEGUN, July 1, 1929. PHASES COMPLETED, All. PERCENTAGE COMPLETED, 100%. PROBABLE COMPLETION, June 30, 1931.

GEORGIA - A study of market values of Georgia peaches differentiated by standard grades and sizes, and longevity of Georgia peach trees.

LEADER, R. M. Middleton. OBJECTIVE, 1. To determine the factors, and their relative importance, causing low quality in peaches; 2. quantity of each grade and size of Georgia peaches that can be marketed one year with another at remunerative prices; 3. necessary changes in production and marketing practices to insure a steady supply of the desired grades and sizes; 4. to classify the ailments of trees in Georgia peach orchards located in the main producing centers, and to determine at what age the trees cease to be profitable. The above will be determined by districts of the State and for each of the important varieties. AREA COVERED, Entire State. TIME, The six-year period 1924-1930. BEGUN, August 1, 1927. PHASES COMPLETED, Studies of factors and their importance causing low quality in peaches. PERCENTAGE COMPLETED, 35%. PROBABLE COMPLETION, Excepting phase dealing with longevity of peach trees in Georgia, should complete project September, 1933.

ILLINOIS - Marketing Calhoun County apples.

LEADERS, J. W. Lloyd and H. M. Newell. OBJECTIVE, To study methods employed in the handling and marketing of apples produced in Calhoun County, Illinois, with a view to suggesting improvements in these methods and recording any changes that take place. AREA COVERED, Calhoun County, Illinois and principal markets where Calhoun County apples are sold. TIME, 6 years so far. BEGUN, 1925. PHASES COMPLETED, Grading and packing practices; transportation facilities available; storage facilities accessible; methods of sale; and margins between harvest and storage sales. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, Indefinite.

ILLINOIS - Losses due to spoilage of fruits and vegetables during the marketing process.

LEADERS, J. W. Lloyd and H. M. Newell. OBJECTIVE, To study factors affecting the keeping quality of fruits and vegetables during the marketing process. AREA COVERED, Producing regions in Illinois with occasional trips to producing regions in other States; terminal markets where Illinois products are shipped; studies of shipments in transit. BEGUN, 1926. PHASES COMPLETED, Relations of care in handling to keeping quality; effects of delayed loading; relation of type of packages to safe carriage of product; effect of floor racks in refrigerator cars; and relation of salt to rapidity of refrigeration. PERCENTAGE COMPLETED, 40%. PROBABLE COMPLETION, Indefinite.

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ILLINOIS - Marketing Illinois peaches.

LEADERS, J. W. Lloyd and H. M. Newell. OBJECTIVE, To secure data regarding the distribution and marketing of peaches, and formulate information designed to be helpful in marketing the Illinois crop. AREA COVERED, Illinois producing regions, with occasional trips to producing regions in other States, and to markets handling Illinois peaches. BEGUN, 1926. PHASES COMPLETED, Shipping seasons for Illinois peaches and those from competing States; logical markets for Illinois peaches based on transportation facilities and rates; and truck sales of Illinois peaches. PERCENTAGE COMPLETED, 40%. PROBABLE COMPLETION, Indefinite.

INDIANA - Marketing Indiana fruits and vegetables - Grades and Standards.

LEADERS, Fay C. Gaylord and Harry M. Cleaver. OBJECTIVE, 1. To determine the influence of standardized grades and standardized packages upon market prices for Indiana grown fruits and vegetables. 2. To determine the effect of storage upon price. 3. To study the influence of market demand, shipping points, routing, handling and rehandling, storage in transit, transportation, grades demanded by different markets, and such other investigations as will throw light upon the economical marketing of these products of Indiana. AREA COVERED, Indiana producing points, Indiana markets and central markets in other States. BEGUN, July 1, 1925. PHASES COMPLETED, Publication of following bulletins--Marketing Onions; Buying Tomatoes on Grade, 1928; Buying Tomatoes on Grade, 1929; and Indiana Peaches. PERCENTAGE COMPLETED, Indefinite. PROBABLE COMPLETION, Indefinite.

KANSAS - The marketing of fruits and vegetables.

LEADER, George Montgomery. OBJECTIVE, 1. To make an analysis of the markets of Kansas fruits and vegetables. 2. To secure information on : a. Agencies and organizations engaged in marketing Kansas fruits and vegetables. b. When, where, and under what conditions these commodities move to market. c. Cultural, grading, packaging, transportation, and processing practices. d. Effect of quality, grades, types, and varieties on demand and price of Kansas fruits and vegetables. 3. To study: a. Methods and practices of marketing. b. Prices and price trends and factors affecting these prices and price trends. c. Other economic factors influencing the marketing. d. Sources and character of competition. e. Production methods insofar as they affect marketing. f. Other pertinent facts touching upon the marketing of Kansas fruits and vegetables with an aim to develop and improve market conditions of these products. AREA COVERED, State of Kansas, in markets for Kansas fruits and vegetables, and in competing regions. TIME, Indefinite. BEGUN, January 1, 1930. PHASES COMPLETED, Factors affecting potato acreage changes. Analysis of distribution of potato shipments. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, 1936.

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MAINE - Apple marketing studies.

1. The marketing of Maine apples and consumers' preferences.
2. Cull apples and their economic significance.

LEADERS, John L. Babson, Jr., Charles H. Merchant, and Merton S. Parsons. OBJECTIVE, To determine the distribution and cost of distribution of Maine apples, market preferences for apples in Maine, and the causes and economic significance of cull apples in Maine. AREA COVERED, Maine. TIME, 1928-31. BEGUN, July 1, 1928. PHASES COMPLETED, Both. PERCENTAGE COMPLETED, 100%. PROBABLE COMPLETED, Completed.

MASSACHUSETTS - Study of the performance and market value of chief varieties of apples in Massachusetts.

LEADER, Lorian P. Jefferson. OBJECTIVE, To study the performance of several varieties over a period of years, and to find their value to the grower. AREA COVERED, Massachusetts. TIME, 5 years. BEGUN, 1925. PHASES COMPLETED, Most of the data collected, tabulations incomplete. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1931.

MASSACHUSETTS - Changing methods of wholesale distribution of perishables.

LEADER, Lorian P. Jefferson. OBJECTIVE, To find the effects of the changes in methods of handling perishable farm products. AREA COVERED, Boston market chiefly. BEGUN, 1931. PHASES COMPLETED, Some data collected. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, 1932.

MICHIGAN - Marketing Michigan pea beans.

LEADER, W. O. Hedrick. OBJECTIVE, Mechanism of marketing Michigan pea beans; outlets, costs, agencies. Study of price determining factors and marketing margins. AREA COVERED, Michigan and the bean market. TIME, 1928-29. BEGUN, July 1, 1929. PHASES COMPLETED, All finished except publication.

NEW HAMPSHIRE - A study of the factors involved in marketing head lettuce grown in New Hampshire.

LEADERS, E. H. Rinear and J. R. Hopler. OBJECTIVE, 1. To study the physical conditions of head lettuce before and after shipping as to crispness, solidity, table quality and general appearance. 2. To compare head lettuce grown in New Hampshire with head lettuce from other sources in respect to the above named qualities. Are there regional preferences? Is New Hampshire grown lettuce acceptable on the Boston market? Is it discounted or are premiums paid? 3. To check the percentage of marketable heads from each plot. 4. To keep account of marketing costs, as crates, paper, ice, and transportation, so as to have accurate data which will be available for

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the lettuce production project. (A study is now being made regarding the possibilities of head lettuce production in northern New Hampshire.). AREA COVERED, Experimental plots at Lancaster, New Hampshire and the Boston market. TIME, July and August during 1929-30. BEGUN, July, 1929. PHASES COMPLETED, 2 seasons' shipments to Boston have been checked. PERCENTAGE COMPLETED, Indefinite. PROBABLE COMPLETION, Indefinite.

NEW YORK CORNELL - Distribution and prices of western New York apples.

LEADER, L. Spencer.

NEW YORK CORNELL - The marketing of grapes.

LEADER, M. P. Rasmussen.

OHIO - Buying cannery tomatoes on grade in Ohio.

LEADER, C. W. Hauck. OBJECTIVE, To find the merits of buying tomatoes on grade. AREA COVERED, Tomato canneries in Ohio buying on grade. TIME, 1929-30-31. BEGUN, 1929. PHASES COMPLETED, Collecting data. PERCENTAGE COMPLETED, 66-2/3%. PROBABLE COMPLETION, 1932.

OHIO - Quality of certain fruits and vegetables as a factor in price.

LEADER, C. W. Hauck. OBJECTIVE, To determine the selection of quality factors to selling price. AREA COVERED, Columbus, Ohio, market. TIME, 1928-1933. BEGUN, 1928. PHASES COMPLETED, 3/4 of data collected; some tabulated. PERCENTAGE COMPLETED, 65%. PROBABLE COMPLETION, 1933.

RHODE ISLAND - An economic study of the production and marketing of vegetables and fruits, with attention to data on other agricultural products, which are obtainable from the same records or sources.

LEADER, R. B. Corbett. OBJECTIVE, To obtain facts on the distant competition of local fruit and vegetable growers. To study market preferences and farm efficiency in regard to vegetables. AREA COVERED, Providence market area, mainly. TIME, Long-time project. BEGUN, 1925. PHASES COMPLETED, Distant competition, survey of market preferences. PERCENTAGE COMPLETED, 25%.

RHODE ISLAND - An economic study of the production and marketing of apples in Rhode Island.

LEADER, R. B. Corbett. OBJECTIVE, To determine the varieties, grades and packs of apples found on farms as compared with those preferred by the produce trade and the consumer. To determine the factors in orchard profits. AREA COVERED, State. TIME, Long-time project to be taken up a section at a time. BEGUN, 1925. PHASES COMPLETED, Inventory of varieties as of 1925,

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trade and consumer preferences, package study. PERCENTAGE COMPLETED, 33-1/3%. PROBABLE COMPLETION, Indefinite.

TEXAS - Mixed carlot movement of fruits and vegetables - lower Rio Grande Valley of Texas.

LEADER, W. E. Paulson. OBJECTIVE, To determine the possibilities of mixed carlot shipments in the distribution of fruits and vegetables from the Lower Rio Grande Valley of Texas. AREA COVERED, Lower Rio Grande Valley of Texas. TIME, 4 years. BEGUN, December 1, 1928. PHASES COMPLETED, Most of data assembled and in process of tabulation. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, September, 1932.

TEXAS - Quality as a factor in marketing vegetables.

LEADER, W. E. Paulson. OBJECTIVE, To determine the extent to which quality is a factor in the successful marketing of vegetables in the Lower Rio Grande Valley of Texas. AREA COVERED, Lower Rio Grande Valley, Texas. TIME, 5 years. BEGUN, September, 1930. PHASES COMPLETED, Preliminary contacts, etc. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, July, 1935.

WASHINGTON - A study of apple prices and their relation to marketing methods.

LEADER, E. F. Dunmeier. OBJECTIVE, To determine as adequately as possible the various factors affecting growers net price returns for Washington apples and the relative importance of these factors. AREA COVERED, Pullman, Washington, and in the apple growing and marketing regions of the State. TIME, 1922 to the present time. BEGUN, February 1, 1928. PHASES COMPLETED, Prices received and western marketing costs have been analyzed for six years beginning in 1922. New York and Chicago daily auction prices, have been analyzed for 3 years. PERCENTAGE COMPLETED, 65%. PROBABLE COMPLETION, 1932.

WASHINGTON - Economic aspects of fruit storage in Washington.

LEADER, Chester C. Hampson. OBJECTIVE, 1. To determine the amount and character of cold storage available at initial shipping points. 2. To determine the character of cold storage available at coast shipping points and its adequacy. 3. To determine so far as possible the optimum amount and character of cold storage that should be available at the initial shipping points and coast shipping points. 4. To determine costs of operating cold storage plants of different types. 5. To determine essential features of successful storage plants. 6. To make a study of the amount and distribution of investment in different types of storage plants. 7. To compile data on storage charges in a. cooperatives and commercial plants at initial shipping points, b. cold storage plants at the ports, c. cold storage at eastern and midwestern plants that handle considerable quantities of

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Washington apples. AREA COVERED, Pullman, Washington, the fruit districts of the Yakima Valley and the Wenatchee-Okanogan region, and at coast shipping points, also at Walla Walla, Spokane and White Salmon. TIME, 1 year. BEGUN, September 18, 1930. PHASES COMPLETED, Field data gathered and tabulations partially completed. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, Late fall or early winter, 1931.

WASHINGTON - An analysis of the economic, operating, and business set-up of successful fruit packing plants.

LEADER, E. F. Dummeier. OBJECTIVE, To determine the essential economic operating and business features of a successful fruit packing plant. AREA COVERED, Pullman, Washington, and in the Wenatchee and Yakima Valleys. TIME, 2 years. BEGUN, September 18, 1930. PHASES COMPLETED, Preliminary survey has been made. PERCENTAGE COMPLETED, 15%. PROBABLE COMPLETION, 1932.

WASHINGTON - A study of trade practices in the marketing of Washington apples.

LEADER, E. F. Dummeier. OBJECTIVE, To ascertain various trade practices in the marketing of Washington apples, with particular reference to methods of quoting prices, making and developing sales, and making collections, and the effect of these upon the general welfare of the industry. AREA COVERED, Points in Washington from which apple sales are conducted and eastern markets. TIME, 3 years. BEGUN, September 18, 1930. PHASES COMPLETED, Considerable information has been collected about current practices. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, 1932 or later.

AGRICULTURAL ECONOMICS

MARKETING - FIELD CROPS

BUREAU OF AGRICULTURAL ECONOMICS

Cotton prices in primary markets, crops of 1928, 1929 and 1930.

LEADERS, L. D. Howell, J. F. Hembree, John S. Burgess, Jr., and T. A. Neubauer. COOPERATION, North Carolina, South Carolina, Georgia, Florida, Tennessee, Alabama, Mississippi, Louisiana, Arkansas, Oklahoma, Texas, and Missouri Agricultural Experiment Stations. BEGUN, August, 1928. PROBABLE COMPLETION, March, 1932.

Relation of movement of cotton to the prices paid to growers.

LEADERS, L. D. Howell, John S. Burgess, Jr., and T. A. Neubauer. COOPERATION, W. B. Lanham, and John T. Egan with the field force of the Grade and Staple Estimates and Price projects. BEGUN, August, 1930. PROBABLE COMPLETION, March, 1932.

Spot cotton quotations and quotation making in central markets.

LEADERS, L. D. Howell, J. F. Hembree, Leonard J. Watson and members of the United States Board of Cotton Examiners. COOPERATION, New Orleans Cotton

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Exchange. BEGUN, August 1, 1929. PROBABLE COMPLETION, June, 1931.

The security of hedges.

LEADERS, L. D. Howell and R. E. Betts. BEGUN, October, 1, 1930. PROBABLE COMPLETION, 1932.

Storage facilities for cotton.

LEADERS, L. D. Howell, W. B. Lanham, and John T. Egan with the field force of the Grade and Staple Estimates and Price projects cooperating in obtaining the data. BEGUN, September, 1929. PROBABLE COMPLETION, July, 1931. (Changed from December, 1930).

American cotton tare practice.

LEADERS, R. J. Cheatham (Acting) and assistance of Grade and Staple Estimates project. BEGUN, December 1, 1930. PROBABLE COMPLETION, June 30, 1932.

Southwestern irrigated cotton quality problem.

LEADERS, George L. Crawford and James R. Kennedy. COOPERATION, Informal cooperation with B. P. I., California, Arizona, New Mexico, and Texas Agricultural Experiment Stations, Textile Mills in California, Massachusetts, New Hampshire and North Carolina and South Carolina. BEGUN, July 25, 1928. PROBABLE COMPLETION, September, 1931. (Changed from July, 1931).

Prices of irrigated cotton in primary markets - crop of 1928.

LEADER, George L. Crawford. COOPERATION, California and Arizona Agricultural Experiment Stations. BEGUN, July 1, 1928. PROBABLE COMPLETION, September 1, 1931. (Changed from June 30, 1930).

A physical analysis of the official cotton staple standards - past and present types.

LEADERS, R. W. Webb, H. B. Richardson and associates. BEGUN, July 1, 1927. PROBABLE COMPLETION, September, 1931.

A study of the distribution of fiber lengths in the "pulls" basic to staple length designation made by different cotton classers under different atmospheric conditions.

LEADERS, R. W. Webb, C. M. Conrad, and D. M. Ellis with the informal assistance of the Appeal Board of Review Examiners. BEGUN, March 1, 1931. PROBABLE COMPLETION, December, 1931.

A study of the changes in the distribution of fiber lengths during the course of manufacture.

LEADERS, R. W. Webb, C. M. Conrad, and A. C. Jones with the informal assistance of the Appeal Board of Review Examiners, and of the spinning project. BEGUN, February 20, 1931. PROBABLE COMPLETION, March, 1932.

A study of the distribution of fiber lengths in certain irrigated cottons as compared with those in Delta cotton.

LEADER, R. W. Webb. COOPERATION, Informal cooperation with B. P. I.,

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RE. Stutts, Junior Leader. BEGUN, January 7, 1931. PROBABLE COMPLETION, July, 1931.

A study of color in its relation to cotton standardization.

LEADERS, R. W. Webb and Dorothy Nickerson. BEGUN, July 1, 1927. PROBABLE COMPLETION, July, 1932. (Changed from 1931).

A study of the importance of color in the utility of cotton.

LEADERS, R. W. Webb, C. M. Conrad, Dorothy Nickerson, L. E. Dilworthy, and M. E. Campbell with the informal assistance of the Appeal Board of Review Examiners. COOPERATION, Informal cooperation with color and dyeing specialists to be arranged. BEGUN, September 12, 1930. PROBABLE COMPLETION, June, 1933.

A study of the stability of color in cotton.

LEADERS, R. W. Webb, C. M. Conrad and Dorothy Nickerson with the informal assistance of the Appeal Board of Review Examiners. COOPERATION, Informal cooperation with Clemson Agricultural College and with others where desirable. BEGUN, September 12, 1930. PROBABLE COMPLETION, June, 1933.

A study of some measurable physical elements of certain raw cottons as related to those of their finished products - Crops 1927 and 1928.

LEADERS, R. W. Webb, Dorothy Nickerson and M. E. Campbell with the informal assistance of the Grade and Staple Estimates project. COOPERATION, Clemson Agricultural College and B. H. E. BEGUN, July 1, 1928. PROBABLE COMPLETION, 1931.

A study of foreign matter in cotton: Its isolation and measurement in relation to ginning and utilization.

LEADERS, R. W. Webb, C. M. Conrad, F. L. Gerdes, and W. H. Smith with the informal assistance of the Appeal Board of Review Examiners and of the Spinning project. COOPERATION, Division of Agricultural Engineering, B. P. R., informal cooperation to be arranged with others where desirable. BEGUN, March 1, 1931. PROBABLE COMPLETION, July, 1932.

Microanalysis of cotton fibers with respect to properties which are of importance in the marketing of raw cotton as well as the manufacturing of yarns and fabrics.

LEADERS, R. W. Webb and Wanda K. Farr. COOPERATION, Informal cooperation with the Boyce Thompson Institute for Plant Research, with the Illinois Agricultural Experiment Station, and with micro-analysts at several institutions. BEGUN, July 1, 1929. PROBABLE COMPLETION, January, 1932. (Changed from January, 1931).

A microanalytical study of cotton fibers in relation to ginning.

LEADERS, R. W. Webb and Norma L. Pearson. COOPERATION, Information cooperation to be arranged. BEGUN, January 1, 1931. PROBABLE COMPLETION, June, 1932.

AGRICULTURAL ECONOMICS - MARKETING - FIELD CROPS

Survey of character in cotton - crop 1930.

LEADERS, R. W. Webb and H. C. Slade and informal assistance of the Appeal Board of Review Examiners. COOPERATION, Informal cooperation with various cotton cooperative associations. BEGUN, October 1, 1930. PROBABLE COMPLETION, September, 1931.

A laboratory survey of certain probable "character" elements in cottons of widely different qualities.

LEADERS, R. W. Webb, C. M. Conrad, H. B. Richardson, T. L. Bailey and Dorothy Nickerson with informal assistance of the Appeal Board of Review Examiners. BEGUN, February 10, 1931. PROBABLE COMPLETION, December, 1931.

A study of the spinning quality of cotton produced under various conditions in the southwestern irrigated area.

LEADERS, R. W. Webb and M. E. Campbell in conjunction with the Southwestern irrigated cotton quality project. COOPERATION, B. P. I., Clemson Agricultural College. BEGUN, January 1, 1931. PROBABLE COMPLETION, December, 1931.

A study of the effects of commercial gin machinery, organization, and operation in terms of measurable characteristics and properties of the fibers for cottons of widely different qualities. Crops of 1928 and 1929.

LEADERS, R. W. Webb and F. L. Gerdes with the informal assistance of the Grade and Staple Estimates project. COOPERATION, B. P. I., Division of Agricultural Engineering, B. P. R., Texas Agricultural Experiment Stations and Clemson Agricultural College. BEGUN, First four projects - July 1, 1928. Last two projects, September 1, 1929. PROBABLE COMPLETION, December, 1931.

A study of the effects of preparation and of moisture content in seed cottons and of different methods of extracting and cleaning on cottons of widely different qualities in relation to ginning and the quality of ginned lint. Crops 1928 and 1929.

LEADERS, R. W. Webb and F. L. Gerdes. COOPERATION, Texas and Mississippi Agricultural Experiment Stations, Division of Agricultural Engineering, B. P. R. BEGUN, July 1, 1928. PROBABLE COMPLETION, 1931.

A comprehensive survey of representative commercial gins with respect to prevailing types and operating practices in the cotton belt. Crop 1929.

LEADERS, R. W. Webb and F. L. Gerdes with informal assistance of the Grade and Staple Estimates project. COOPERATION, Division of Agricultural Engineering, B. P. R. BEGUN, July 1, 1929. PROBABLE COMPLETION, September 1, 1931.

A study of the physical properties of fibers of southwestern irrigated cotton grown under a wide range of conditions as affected by standard ginning organizations. Crops 1929 and 1930.

AGRICULTURAL ECONOMICS - MARKETING - FIELD CROPS

LEADERS, R. W. Webb, F. L. Gerdes, and W. H. Smith, in conjunction with the southwestern irrigated cotton quality project. COOPERATION, B. P. I. BEGUN, October 1, 1930. PROBABLE COMPLETION, December, 1931.

Basic investigations regarding the fiber and engineering aspects of cotton ginning processes and their related auxiliaries. - Crop 1930.

LEADERS, R. W. Webb, F. L. Gerdes, and W. H. Smith. COOPERATION, Division of Agricultural Engineering, and B. P. I.; informal cooperation with the Delta Branch Station of the Mississippi Agricultural Experiment Station. BEGUN, July, 1930. PROBABLE COMPLETION, June, 1932.

The influence of humidity on moisture content of cotton, properties of the fibers and the art of cotton stapling.

LEADERS, R. W. Webb and associates, with the informal assistance of the Appeal Board of Review Examiners. BEGUN, March 1, 1929. PROBABLE COMPLETION, July 1, 1932.

The use of cotton in cotton picking sacks, cotton picking sheets and tarpaulins.

LEADERS, R. J. Cheatham and J. T. Wigington. COOPERATION, North Carolina, and South Carolina Agricultural Experiment Stations, and the Cotton Textile Institute (Informal). BEGUN, July 1, 1929. PROBABLE COMPLETION, June, 1931.

The use of a cotton fabric for patches. (On cotton bales.)

LEADERS, R. J. Cheatham, J. T. Wigington and J. J. Brown. COOPERATION, Textile School, North Carolina Agricultural Experiment Station. BEGUN, October 1, 1929. PROBABLE COMPLETION, September, 1931.

Cotton fabrics suitable for consumer packaging of farm products and for other purposes.

LEADERS, R. J. Cheatham, J. T. Wigington and J. J. Brown. COOPERATION, Textile School, North Carolina Agricultural Experiment Station. BEGUN, October 10, 1929. PROBABLE COMPLETION, January, 1932.

The use of cotton bags as containers in the milling trade - Flour and feed.

LEADERS, R. J. Cheatham and J. T. Wigington. BEGUN, August 1, 1930. PROBABLE COMPLETION, December, 1931.

The use of cotton bags as containers for cement.

LEADERS, R. J. Cheatham and J. T. Wigington. BEGUN, January 1, 1931. PROBABLE COMPLETION, 1932.

Competition of American cotton with other growths in Europe.

LEADERS, W. W. Fetrow, Division of C. M., and W. I. Holt, Division of F. A. S. BEGUN, May, 1930. PROBABLE COMPLETION, May, 1931.

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Competition and trends in world consumption of cotton.

LEADERS, W. W. Fetrow, C. C. Farrington and Rodney Whitaker. BEGUN, September 1, 1928. PROBABLE COMPLETION, 1932.

Some recent trends in cotton mill consumption by countries.

LEADERS, W. W. Fetrow and C. C. Farrington. BEGUN, May 1, 1929. PROBABLE COMPLETION, 1931.

Seasonal world movement of cotton as related to demand and consumption.

LEADERS, W. W. Fetrow, C. C. Farrington and Rodney Whitaker. BEGUN, March 1, 1930. PROBABLE COMPLETION, 1932.

Determination of size of sample to be secured for grade and staple estimate.

LEADERS, W. B. Lanham and F. H. Harper. BEGUN, March, 1929. PROBABLE COMPLETION, July 1, 1931 (preliminary report); annual progress reports thereafter.

A study of the composition of cotton seed and the correlation of the ingredients for grading purposes.

LEADER, G. S. Meloy. COOPERATION, Informal cooperation with Cotton Seed Oil Mills, National Seed Products Association, American Oil Chemical Society, Commercial and Private Chemical Laboratories. BEGUN, July, 1925. PROBABLE COMPLETION, Indefinite.

Methods of sampling and analyzing cotton seed for crushing purposes.

LEADERS, Interbureau Committee - G. S. Meloy, Chairman, B. A. E.; W. W. Skinner, G. S. Jamieson and J. A. LeClerc, B. C. & S. COOPERATION, Informal cooperation with all analytical laboratories, private and commercial, interested in cotton seed analysis. BEGUN, December, 1928. PROBABLE COMPLETION, 1932.

Cleaning of grain on the farm and at country elevators.

LEADERS, E. G. Boerner, R. H. Black, E. N. Bates, and George P. Bodnar. BEGUN, 1919. PROBABLE COMPLETION, 1932.

Equipment and methods for bulk grain handling.

LEADERS, E. G. Boerner, E. N. Bates, and George P. Bodnar. COOPERATION, California Agricultural Experiment Station. BEGUN, 1924. PROBABLE COMPLETION, Indefinite.

Cleaning rice at the threshing machine.

LEADERS, E. G. Boerner, E. N. Bates, and George P. Bodnar. COOPERATION, No formal cooperation. BEGUN, 1926. PROBABLE COMPLETION, 1932.

Artificial drying of rice.

LEADERS, E. G. Boerner, W. D. Smith, George P. Bodnar, E. N. Bates, R. M. Gehl, C. H. Bennett, and J. J. Deffes. COOPERATION, Division of Agricultural Engineering, B. P. R. BEGUN, 1927. PROBABLE COMPLETION, 1932.

AGRICULTURAL ECONOMICS -- MARKETING -- FIELD CROPS

Effect of bulk handling of grain on commercial grade and market value.

LEADERS, E. G. Boerner, E. N. Bates, and George P. Bodnar. COOPERATION, California Agricultural Experiment Station. BEGUN, Spring, 1929. PROBABLE COMPLETION, 1932.

Saving in cost of producing grain through bulk handling.

LEADERS, E. G. Boerner, E. N. Bates, and George P. Bodnar. BEGUN, 1928. COOPERATION, California Agricultural Experiment Station. PROBABLE COMPLETION, Indefinite.

Standard grades for rice.

LEADERS, E. G. Boerner, W. D. Smith, E. N. Bates, and R. M. Gehl. COOPERATION, Informal cooperation with California Agricultural Experiment Station. BEGUN, 1918. PROBABLE COMPLETION, Indefinite.

Maintaining satisfactory quality and condition of rice harvested with the combine and with the windrower (Swathing machine).

LEADERS, E. G. Boerner, W. D. Smith, and E. N. Bates. BEGUN, 1930. PROBABLE COMPLETION, 1933.

Methods for determining what constitutes quality in wheat.

LEADERS, D. A. Coleman, H. C. Fellows, B. E. Rothgeb, Elwood Hoffecker, and A. Christie. COOPERATION, Federal Grain Supervision. BEGUN, July 1, 1929. PROBABLE COMPLETION, July 1, 1933.

Development of a method for the estimation of soundness in wheat and other cereals.

LEADERS, D. A. Coleman, and H. C. Fellows. BEGUN, Wheat, July 1, 1928; Rye, July 1, 1929; Corn, July 1, 1929; Oats, July 1, 1930; Sorghums, July 1, 1930; Barley, July 1, 1929. PROBABLE COMPLETION, Wheat, June 30, 1931; Rye, Corn, Oats, Sorghums, and Barley, July 1, 1933.

Milling and baking properties of American wheat varieties.

LEADERS, D. A. Coleman, C. C. Fifield, Philip Talbott, Donald Martin, J. F. Hayes, and Sydney Snyder. COOPERATION, B. P. I. personnel assigned to Milling and Baking Laboratory. BEGUN, July 1, 1930. PROBABLE COMPLETION, Indefinite.

Milling and baking properties of world wheats.

LEADERS, D. A. Coleman, H. C. Fellows, C. C. Fifield, Ray Weaver, and A. Christie. COOPERATION, Division of F. A. S. BEGUN, July 1, 1930. PROBABLE COMPLETION, Indefinite.

Development of methods for the rapid estimation of moisture in cereal grains, and flaxseed.

LEADERS, D. A. Coleman, H. C. Fellows, and H. B. Dixon. COOPERATION, Federal Grain Supervision and equipment manufacturers. BEGUN, January 1, 1929. PROBABLE COMPLETION, July, 1933.

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Milling and baking properties of durum wheats.

LEADERS, D. A. Coleman, C. C. Fifield, H. C. Fellows, and Donald Martin.

COOPERATION, B. P. I. BEGUN, January 1, 1931. PROBABLE COMPLETION, Indefinite

Development of rapid methods for determining proteins in wheat.

LEADERS, D. A. Coleman, C. Kyle, and Sydney Snyder. BEGUN, July 1, 1927.

PROBABLE COMPLETION, July 1, 1931.

Measurement of flour color.

LEADERS, D. A. Coleman, C. C. Fifield, and Philip Talbott. BEGUN, January 1, 1931. PROBABLE COMPLETION, July 1, 1933.

Measurement of color of hay, chopped alfalfa and alfalfa meal.

LEADERS, Edward C. Parker, William H. Hosterman, Dorothy Nickerson, C. F. Welsh and E. B. Coffman. COOPERATION, Informal cooperation with Bureau of Standards. BEGUN, 1924. PROBABLE COMPLETION, Indefinite but more or less continuous as to application of methods to standardization work.

Alfalfa meal and chopped alfalfa standardization.

LEADERS, Edward C. Parker, W. H. Hosterman, Wallace L. Hall and field supervisors. COOPERATION, Informal Cooperation with Food, Drug, and Insecticide Administration; Nevada and Idaho State Departments of Agriculture; alfalfa mills in Colorado, Utah, Idaho, Nevada, California, Washington, Kansas, Nebraska, and Minnesota. BEGUN, 1927. PROBABLE COMPLETION, It is hoped to formulate tentative standards in 1932.

Straw standardization.

LEADERS, E. C. Parker, K. B. Seeds, and C. F. Welsh. COOPERATION, Veterinarian Corps and Quartermaster Corps of the U. S. Army. BEGUN, 1930. PROBABLE COMPLETION, 1932.

Causes for low-grade hay.

LEADERS, Edward C. Parker, W. H. Hosterman, and field supervisors. COOPERATION, Informal cooperation with Michigan, Nebraska, Kansas, Arizona, Washington, and California Agricultural Experiment Stations. BEGUN, 1925. PROBABLE COMPLETION, Indefinite.

Feed value of hay of various U. S. grades.

LEADERS, Edward C. Parker, W. H. Hosterman and C. F. Welsh. COOPERATION, Informal cooperation with B. D. I., B. A. I., Utah and Idaho Agricultural Experiment Stations. BEGUN, 1925. PROBABLE COMPLETION, Indefinite.

Hay curing and storage methods.

LEADERS, Edward C. Parker, A. J. Pieters, W. H. Hosterman and E. O. Pollock. COOPERATION, Project originally organized by Office of Forage Crop Investigations, B. P. I. Cooperating with Nebraska Agricultural Experiment Station, H. F. & S. Division participated in organization and

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is responsible for establishing grades on hay produced by various methods. This project has been enlarged and the Division of Agricultural Engineering, B. P. R. is interested in the mechanical features of artificial curing. BEGUN, 1928. PROBABLE COMPLETION, Indefinite.

Variations in samples of alfalfa and red clover seed from the same lot.

LEADERS, G. C. Edler, J. S. Lide and M. H. Hess. BEGUN, February 21, 1928. PROBABLE COMPLETION, July 1, 1932.

Factors affecting the quality of beans in storage.

LEADERS, J. E. Barr, Howard Kittle, and Mary R. Duvall. BEGUN, February 1, 1930. PROBABLE COMPLETION, July 1, 1932.

Foreign dried bean production and its relation to the demand for U. S. beans; including information available on foreign bean production by classes of beans; information available on U. S. imports of the various classes of beans; imports of beans from specific foreign sources; and relation of prices of foreign beans to domestic.

LEADER, Lila Thompson. BEGUN, January 21, 1929. PROBABLE COMPLETION, Indefinite.

Cotton consumption - foreign countries.

LEADERS, Lawrence Myers, and Maurice R. Cooper. BEGUN, March, 1930. PROBABLE COMPLETION, Preliminary reports will be published from time to time - World Cotton Prospects.

World wheats: Including characteristics of wheats of various countries including wheat production and trade for various countries, soil and climatic conditions affecting wheat, types of wheat grown in various regions of the different countries, the growing season, methods of cultivation, insects and diseases affecting the crop, and factors influencing size of the wheat areas in principal producing countries.

LEADERS, O. L. Dawson and Lila Thompson. COOPERATION, Grain Division, B.A.E. BEGUN, February, 1928. PROBABLE COMPLETION, Manuscript on one phase, "World Wheats - Milling and Baking Qualities" in hands of editors; other phases, indefinite.

Durum wheat situation: Including development of durum wheat production in the U. S. from 1909 to date; the market for our product and factors which affect the price of our durum wheat; foreign competition to be met in marketing it; and possible development of future competition.

LEADER, Lila Thompson. BEGUN, February 1, 1929. PROBABLE COMPLETION, June 1, 1931.

An analysis of wheat storage facilities in the hard winter and hard spring wheat states.

LEADER, Carlos E. Campbell. BEGUN, August 1, 1930. PROBABLE COMPLETION, August 1, 1931.

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Movement 1930 wheat crop, hard winter and hard spring sections.

LEADER, Carlos E. Campbell. BEGUN, June 1, 1930. PROBABLE COMPLETION, April 1, 1931.

Relation of weather to yields in foreign countries.

LEADER, Lila Thompson. BEGUN, March, 1929. PROBABLE COMPLETION, Indefinite.

STATE AGRICULTURAL EXPERIMENT STATIONS

ALABAMA - Relation of grade and staple of cotton to prices paid to farmers in Alabama.

LEADER, J. D. Pope. OBJECTIVE, To determine the extent to which differences paid in central markets are obtained in farmers and to determine whether or not an economic basis has existed for the improvement of the quality of cotton produced in the State. AREA COVERED, Twenty-two local markets representing the different regions of the State. TIME, 1926, 1927, and 1928. BEGUN, 1926. PHASES COMPLETED, All phases. PERCENTAGE COMPLETED, 100%. PROBABLE COMPLETION, Bulletin will probably be published by September, 1931.

ARKANSAS - Grade and staple estimates and primary market price study.

LEADER, C. O. Brannen. OBJECTIVE, To obtain an estimate of the grade and staple of Arkansas cotton and the relative price at which different grades and staples sell in local and central markets. AREA COVERED, Entire State. TIME, A period of years. BEGUN, 1928. PHASES COMPLETED, Data for each year but no report written. PROBABLE COMPLETION, Indefinite.

COLORADO - A study of methods of storage and marketing practices in handling onions in the Arkansas Valley.

LEADERS, L. A. Moorhouse and N. D. Sanborn. OBJECTIVE, Our objective has been to solve some of the market problems which have been facing producers in the Arkansas Valley and the San Luis Valley. It has been developed entirely on a commodity basis. AREA COVERED, Arkansas Valley and San Luis Valley. TIME, 8 years. BEGUN, 1923. PHASES COMPLETED, Substantially all phases of this project have been completed. PERCENTAGE COMPLETED, 85%. PROBABLE COMPLETION, Within a year.

GEORGIA - Cotton grade and staple estimates and primary market price studies.

LEADER, W. T. Fullilove. OBJECTIVE, The object of this work is to determine the grade, staple length, and tenderability of cotton produced in Georgia. Estimates to be made from the classification of samples of cotton collected at specified gins throughout the ginning season. Object of price work is to determine whether cotton is sold on a basis of its grade and staple value

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in local markets and to what extent the premiums and discounts paid in the central markets are reflected in the prices paid in local markets. It is the further purpose of this study to investigate the factors responsible for, or associated with, these variations and to indicate the influences of the variations in prices received by growers for different grades and staple lengths on the quality of cotton grown. AREA COVERED, State of Georgia. BEGUN, August 1, 1927. PHASES COMPLETED, Grade and staple reports for Georgia are issued periodically throughout the ginning season by the Bureau in cooperation with Georgia Experiment Stations. At the close of each cotton season a summary report for the State is made, also an individual report for each cooperating gin in the State. PROBABLE COMPLETION, Indefinite.

IDAHO - Relative efficiency of bulk handling from the combine and thresher.

LEADERS, T. L. Gaston and Neil Johnson of B. A. E. OBJECTIVE, To compare and determine the relative efficiency of the various methods of handling grain from the combine or stationary threshing machine to the local elevator. AREA COVERED, Dry farming areas of Idaho, Washington and Oregon. TIME, June 1, 1930 to October 1, 1930. BEGUN, June 1, 1930. PHASES COMPLETED, All. PERCENTAGE COMPLETED, 100% except publication.

ILLINOIS - Soybean marketing investigations.

LEADERS, C. L. Stewart, L. F. Rickey, and O. L. Whalin. OBJECTIVE, To determine: 1. The methods followed in disposing of the soybean crop. 2. The influence of various factors upon its cost of marketing. 3. The influence of various factors on the prices paid for soybeans and soybean products. 4. The marketing characteristics of the crop in relation to the capacity of producers and consumers to deal in it cooperatively. AREA COVERED, Soybean areas of Illinois, competing areas of production, consuming areas for soybean and products. TIME, Chiefly 1925 to date. BEGUN, 1924, active work about 1928. PHASES COMPLETED, Historical data regarding production, prices, methods of handling largely collected. PERCENTAGE COMPLETED, 80% of present phases. PROBABLE COMPLETION, Present study - 1931-32; project - indefinite.

ILLINOIS - Grain marketing investigation.

LEADERS, C. L. Stewart and L. F. Rickey. OBJECTIVE, To determine: 1. The geographic origins of various classes and grades of Illinois grain reaching the Chicago, St. Louis and Indianapolis markets. 2. The market destinations and season of marketing of grain from Illinois country points. 3. The causes and extent of financial loss from shipments of mixed grain. 4. The relative returns from different types of grain by geographic districts. 5. The relative advantages of different types of marketing agencies for the marketing of Illinois grain. 6. The bases of improving the marketing of Illinois

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grain. AREA COVERED, Illinois grain areas and inspection. TIME, 1925 to date. BEGUN, 1925. PHASES COMPLETED, Location of sources of mixed wheat shipments. Amount of garlicky wheat. PROBABLE COMPLETION, Indefinite.

IOWA - Destination and origin of Iowa's commercial corn and oat crops.

LEADERS, R. C. Bentley, and P. L. Miller. OBJECTIVE, Determine proportion of Iowa's crop going outside of State on first billing, proportion of remainder going to local markets and to feeder trade direct, what large market receives the most of Iowa's grain, seasonal shift in above movements, year to year shifts, areas that supply eastern Iowa deficit areas with feed grains and seasonal shift in source of these supplies. AREA COVERED, Iowa. TIME, 1923-24 and 1929-30. BEGUN, 1927. PHASES COMPLETED, Data for years 1927-28 and 1929-30 gathered, analyzed. Manuscripts have been prepared. They are now in preliminary form. PERCENTAGE COMPLETED, Nearly done. PROBABLE COMPLETION, June 30, 1932.

IOWA - The commercial movement of Iowa's corn and oats.

LEADER, R. C. Bentley. OBJECTIVE, Determine the extent of Iowa's surplus commercial feed grain. AREA COVERED, Iowa. TIME, 1923-24 1929-30. BEGUN, 1925. PHASES COMPLETED, Mostly completed. PERCENTAGE COMPLETED, 85%. PROBABLE COMPLETION, June 30, 1932.

KANSAS - The marketing of Kansas wheat.

LEADER, R. M. Green. OBJECTIVE, 1. To assist the individual farmers in obtaining some basis for judgment as to time of selling. 2. To furnish interested farmers with market outlook material as a part of their consideration in planning production. 3. To find facts with regard to existing marketing conditions that will have to be overcome by cooperative action of farmers. 4. To locate some of the obstacles in the way of the development of cooperative marketing and place these findings in the hands of cooperative officers and boards of directors as well as present them through the college extension service to the patrons of cooperatives. 5. To keep in stock an unbiased set of facts with regard to wheat marketing conditions in the State that can be used, without fear of their being tainted with propaganda, whenever the State, national, or public interest is involved. AREA COVERED, Kansas mainly with some reference to outside competing areas. TIME, Originally 1920 to 1925 but have found it necessary to put most phases of the project on a continuous basis as changes in method of harvesting, cooperative marketing and other such factors make it necessary to continuously revise earlier data. BEGUN, October, 1920. PHASES COMPLETED, 1, 2, and 3. PERCENTAGE COMPLETED, Indefinite because of the progressive nature of most of the problems involved. PROBABLE COMPLETION, Certain phases are completed as they cease to change or to be of relatively great importance. The project as a whole is kept open so that at any time a certain phase

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again becomes important, it can be returned to immediately and tabulation be brought up to date. As an example the local wheat storage problem in Kansas returned to importance as a current problem in 1928, 1929 and 1930 with the accumulation of larger wheat carry-overs, good crops during these years, and the influence of the Farm Board in the wheat market.

KENTUCKY - Investigation of the marketing of tobacco.

LEADERS, H. B. Price and D. G. Card. OBJECTIVE, To obtain information regarding the methods of handling and marketing tobacco, outlets, trade organization, price movements and relationships, consumption trends, and related questions. AREA COVERED, Tobacco markets of Kentucky. BEGUN, 1924. PHASES COMPLETED, Cooperative marketing, and marketing organization. PROBABLE COMPLETION, June, 1932.

MARYLAND - Supply and distribution of Maryland tobacco.

LEADERS, S. H. DeVault and W. J. Hart. OBJECTIVE, To study the economic factors involved in the production, consumption and distribution of Maryland tobacco. AREA COVERED, 5 counties of southern Maryland. TIME, 1929 to 1933. BEGUN, 1929. PHASES COMPLETED, Costs records have been secured for about 300 farms. Partial tabulation has been made of these. In addition some information has been collected on methods and costs of marketing. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1933.

MISSISSIPPI - Cotton grade, staple and price study.

(Cooperating with B. A. E.) LEADER, Lewis E. Long. OBJECTIVE, To determine the grade and staple of cotton produced, and the prices received by producers for similar quality cotton under various conditions. AREA COVERED, State of Mississippi. TIME, Indefinite. BEGUN, July, 1928. PHASES COMPLETED, None. PROBABLE COMPLETION, Indefinite.

MISSOURI - Prices and grades of cotton.

LEADER, F. L. Thomsen. OBJECTIVE, To study the response that price to individual growers makes to variation in grade and staple. AREA COVERED, 3 southeast Missouri cotton counties. TIME, 3 years. BEGUN, 1929. PHASES COMPLETED, First two years. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, 1932.

NEBRASKA - Cost of marketing corn and wheat in Nebraska by different marketing methods.

LEADER, Harold Hedges. OBJECTIVE, Statistical studies of prices; movement of Nebraska farm products to market; and operating problems of country grain elevators. AREA COVERED, State. TIME, 1926 to date. BEGUN, 1926. PHASES COMPLETED, 1 and 3. Data collected and tabulated. 2. Data being assembled. PROBABLE COMPLETION, Indefinite.

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NEW HAMPSHIRE - A study of the factors involved in marketing potatoes in New Hampshire.

LEADERS, E. H. Rinear and M. F. Abell. OBJECTIVE, To study methods, costs and margins of marketing potatoes in New Hampshire. The results of this study should give definite information on which to base recommendations for the best procedure in marketing New Hampshire potatoes. To study consumer demand preferences regarding size and source and to make comparisons as to nationality and income. AREA COVERED, New Hampshire and Boston market. TIME, Principally from September to June during years 1927, 1928, and 1930. BEGUN, October 27, 1927. PHASES COMPLETED, Consumer demand. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, Bulletin will probably be ready for publication January 1, 1932. The project should be continued as new problems are constantly arising.

NEW MEXICO - Cotton grade and staple estimates and primary market price studies.

LEADERS, J. C. Overpeck and James R. Kennedy. OBJECTIVE, 1. To make an estimate of the grade and staple of cotton produced in New Mexico; and to determine whether cotton is sold on a basis of its grade and staple value on the local markets and whether the prices paid in the local markets are reflected in the central markets. AREA COVERED, New Mexico. TIME, 1 to 5 years. BEGUN, Project approved May 7, 1931; active work begun July 1, 1931. PHASES COMPLETED, Active work has just started. PROBABLE COMPLETION, 1936.

NEW YORK CORNELL - The potato situation--prices, distribution, competing areas, etc.

LEADER, M. P. Rasmussen.

NORTH CAROLINA - Cotton marketing.

LEADERS, G. W. Forster, and Joseph G. Knapp. OBJECTIVE, To determine whether cotton is sold on a basis of its grade and staple value on the local markets and whether the prices paid in the central markets are reflected in the local markets; to determine how well the type of production in North Carolina is meeting market demands; and to study buying methods and practices of gins. AREA COVERED, Cotton area of North Carolina. TIME, 4 years. BEGUN, September, 1928. PHASES COMPLETED, Collection of data, tabulation and analysis. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, July, 1932.

NORTH DAKOTA - Organization and business of farmers' elevators in North Dakota.

LEADERS, A. H. Benton and H. G. Anderson. OBJECTIVE, To make a study of business practices of local grain elevators, especial attention to hedging

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and sideline activities. AREA COVERED, State of North Dakota. TIME, 1925-1930. BEGUN, 1925. PHASES COMPLETED, All field data secured. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, March 1, 1932.

NORTH DAKOTA - Marketing of durum wheat.

LEADER, A. H. Benton. OBJECTIVE, To determine the market outlets for durum wheat. AREA COVERED, State of North Dakota and primary markets in the U. S. handling durum wheat. TIME, 10 years, 1920-1930. BEGUN, 1929. PHASES COMPLETED, Preliminary survey. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, January 1, 1933.

OHIO - A business analysis of Ohio farmer elevators.

LEADER, B. A. Wallace. OBJECTIVE, To analyze the business records of Ohio elevators. AREA COVERED, Ohio. TIME, 1928, 1929, 1930, 1931, etc. BEGUN, 1928. PHASES COMPLETED, For 4 years. PERCENTAGE COMPLETED, Up to 1931. PROBABLE COMPLETION, Continuous.

PENNSYLVANIA - Methods of marketing Pennsylvania potatoes.

LEADER, F. F. Lininger. OBJECTIVE, Study the method used by Pennsylvania growers in marketing potatoes, the costs by each method, the prices received, and the net returns to growers. Also to study containers used and their effect on net returns and the effect of various quality factors on prices. AREA COVERED, The leading potato producing sections of the State. TIME, 3 years. BEGUN, 1929. PHASES COMPLETED, The methods now being used have been studied, the data analyzed and practically completed for publication. The effect of packing baking potatoes in small bags has been studied and data collected in the Pittsburgh market on the quality factors affecting price. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, 1933.

SOUTH CAROLINA - Cotton marketing studies.

LEADERS, W. C. Jensen, M. Grim, and H. R. White. OBJECTIVE, Determine staple and grade of cotton and relations of quality to price and costs, and movements in marketing. AREA COVERED, State, using sampling method. TIME, 1928-32. BEGUN, July, 1928. PHASES COMPLETED, 3 years along lines of objective. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, Indefinite.

TENNESSEE - Grade and staple estimates and primary market price studies.

LEADER, C. E. Allred. OBJECTIVE, To make an estimate of the grade and staple of Tennessee cotton; to determine whether cotton is sold on a basis of its grade and staple value on the local markets; and whether the prices paid in the local markets are reflected in the central markets. AREA COVERED, Cotton producing areas of Tennessee. TIME, Until significant results are

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obtained. BEGUN, August 1, 1928. PHASES COMPLETED, Preliminary unpublished report for 1928-29, 1929-30, and 1930-31. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, 1934.

TEXAS - Local cotton marketing.

LEADERS, L. P. Gabbard and W. E. Paulson. OBJECTIVE, To determine the extent to which local markets discriminate between the different grades and staples of cotton in the price paid growers. AREA COVERED, Four selected local markets in the State representing as many principal producing areas. TIME, 6 years at least. BEGUN, July, 1926. PHASES COMPLETED, Data have been collected for five seasons and have been tabulated. PERCENTAGE COMPLETED, 70 to 80%. PROBABLE COMPLETION, July, 1932.

VIRGINIA - Marketing Virginia tobacco.

LEADERS, R. A. Ballinger and J. J. Vernon. OBJECTIVE, To determine the methods and costs of marketing Virginia tobacco and to discover ways of improving the same. AREA COVERED, The tobacco section of Virginia. TIME, July 1, 1930, on. BEGUN, July 1, 1930. PHASES COMPLETED, Curing practices on farms. Warehouse costs and practices data collected. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, June, 1932.

AGRICULTURAL ECONOMICS

MARKETING - MISCELLANEOUS

BUREAU OF AGRICULTURAL ECONOMICS

A study of the bulb industry.

LEADERS, R. R. Pailthorp and R. G. Hill. BEGUN, September, 1929. PROBABLE COMPLETION, April 1, 1931.

STATE AGRICULTURAL EXPERIMENT STATIONS

INDIANA - Marketing Indiana woodland products.

LEADERS, W. LeRoy Neubrech and R. C. Brundage. OBJECTIVE, 1. To study the cutting, methods of marketing and returns on woodland products of Indiana. 2. To determine the sizes, grades, handling, seasoning, care, condition, and use of the products produced. AREA COVERED, Middle southern, middle western, northeastern, northwestern, central, and southeastern counties of Indiana. TIME, 1928-29 until completed. BEGUN, 1928-29. PHASES COMPLETED, Marketing Indiana timber. PERCENTAGE COMPLETED, Indefinite. PROBABLE COMPLETION, Indefinite.

AGRICULTURAL ECONOMICS - MARKETING - MISCELLANEOUS

MINNESOTA - Market outlets for woodland products in northeastern Minnesota.

LEADERS, O. B. Jesness and T. S. Hansen. OBJECTIVE, To find the existing and potential markets for products which may be cut from the farm woodlands in northeastern Minnesota and to develop methods of utilizing forest by-products. AREA COVERED, Northeastern Minnesota. BEGUN, 1929. PHASES COMPLETED, Schedules prepared and some farmers interviewed. PERCENTAGE COMPLETED, Uncertain. PROBABLE COMPLETION, Uncertain.

C2G16C

A coordinated defense program in home and

1941.

AGRICULTURAL ECONOMICS

PRICES

BUREAU OF AGRICULTURAL ECONOMICS

Statistical studies on apple prices.

LEADER, L. H. Bean. BEGUN, April 1, 1931. PROBABLE COMPLETION, April 1, 1932.

Statistical study of the price of butter.

LEADER, E. E. Vial. COOPERATION, Division of Cooperative Marketing, Federal Farm Board, BEGUN, October 1, 1924. PROBABLE COMPLETION, Indefinite.

Factors affecting the price of corn.

LEADERS, C. M. Purves and E. J. Working. BEGUN, January 1, 1928. PROBABLE COMPLETION, Indefinite.

Prices of beef cattle.

LEADER, G. B. Thorne. COOPERATION, Division of L. M. & W., and Division of C. & L. E., B. A. E. BEGUN, May 1, 1929. PROBABLE COMPLETION, December 31, 1931.

An analysis of cheese prices and their relation to the prices of other dairy products.

LEADER, E. E. Vial. BEGUN, September, 1930. PROBABLE COMPLETION, September, 1931.

Prices of domestic and foreign cottons and comparative consumption of American and foreign cottons in the domestic and foreign markets.

LEADERS, Lawrence Myers, and Maurice R. Cooper. BEGUN, Some work has been done on this project over the past two years. PROBABLE COMPLETION, The problem was treated in "The World Cotton Situation", December, 1930. A further report is expected to be made by December, 1931.

Cotton prices.

LEADERS, Lawrence Myers and M. R. Cooper. COOPERATION, Division of C. M., B. A. E. BEGUN, July 1, 1928. PROBABLE COMPLETION, Indefinite.

Collection and analysis of farm price data in New York.

LEADERS, O. C. Stine, G. F. Warren, F. A. Pearson and H. J. Stover. COOPERATION, New York Cornell Agricultural Experiment Station. BEGUN, July 15, 1930. PROBABLE COMPLETION, June 30, 1932.

Collection and analysis of farm price data in Wisconsin.

LEADERS, B. H. Hibbard, W. H. Ebling, O. C. Stine, and Herbert E. Erdman. COOPERATION, Office of State Agricultural Statistician for Wisconsin, Division of C & L E., Wisconsin Agricultural Experiment Station. BEGUN, March 1, 1931. PROBABLE COMPLETION, July 1, 1931.

AGRICULTURAL ECONOMICS -- PRICES

Mohair prices, production, trade, and consumption.

LEADERS, Lawrence Myers, Florence Hamilton, and Esther Johnson. BEGUN, September, 1930. PROBABLE COMPLETION, April, 1931.

An analysis of wheat prices.

LEADER, E. J. Working. BEGUN, January 1, 1929. PROBABLE COMPLETION, Indefinite.

Rice prices and factors affecting the price of rice.

LEADER, Carlos E. Campbell. BEGUN, February 1, 1929. PROBABLE COMPLETION, April, 1930.

A study of poultry and egg prices.

LEADER, Alexander Sturges. BEGUN, March 1, 1929. PROBABLE COMPLETION, September 30, 1931.

An analysis of prices of oats.

LEADER, E. J. Working. BEGUN, May 1, 1929. PROBABLE COMPLETION, Indefinite.

World sheep and wool situation.

LEADERS, Lawrence Myers, and G. B. Thorne. COOPERATION, Livestock, Meats and Wool, Division of C. & L. E. BEGUN, April 1, 1931. PROBABLE COMPLETION, July 31, 1931.

Wool prices, consumption, and stocks.

LEADERS, Lawrence Myers, and Mrs. F. Hamilton. BEGUN, June, 1930. PROBABLE COMPLETION, Preliminary report, September, 1931.

Production and prices of merino and crossbred wool.

LEADERS, E. G. Nourse, L. Myers, and Herman M. Stoker. COOPERATION, Informal cooperation with Cornell Agricultural Experiment Station. BEGUN, October, 1929. PROBABLE COMPLETION, June, 1931.

An analysis of tobacco prices.

LEADER, W. G. Finn. COOPERATION, Tobacco Section. BEGUN, June 15, 1931. PROBABLE COMPLETION, June 1, 1932.

Determination of factors affecting the prices of various types and classes of cigar leaf tobacco.

LEADERS, I. G. Davis, O. C. Stine, F. V. Waugh, and Howard B. Boyd. COOPERATION, Connecticut Agricultural Experiment Station and New England Research Council. BEGUN, July 1, 1929. PROBABLE COMPLETION, July 1, 1931.

The farmers response to prices in hog production.

LEADER, Oris V. Wells. BEGUN, April 1, 1930. PROBABLE COMPLETION, September 1, 1931.

AGRICULTURAL ECONOMICS - PRICES

STATE AGRICULTURAL EXPERIMENT STATION

CALIFORNIA -- Factors affecting the supply, demand, and prices of important California farm products.

OBJECTIVE, To discover, measure, and explain the major factors and relationships of factors that have to do with trends, cycles, and annual and seasonal variations in acreage, (or size of flocks and herds), production, (Quantity, variety and quality), shipments, utilization, exports, imports, inventories, consumption, demand and prices of important California farm products in the past in such a way that they may have prediction value for growers, processors and distributors. AREA COVERED, Primary emphasis placed upon conditions in California. Information on competing supplies from other States and from foreign countries and on demand for and prices of California farm products in the United States and principal foreign markets is obtained and analyzed. BEGUN, 1925. TIME, This is a continuing project. Each year as new data become available they are added to the series already collected, and a re-analysis of the data is made. Most of the series go back to 1910, others go back only to 1921. PHASES COMPLETED, Bulletins containing data, and such analyses as have been made on each commodity, are published at intervals of about five years. Special analyses of the influence of various factors on supply, demand, and prices are published at irregular intervals. An appraisal of all available information is made each year as a background for outlook reports. PERCENTAGE COMPLETED -- as follows --

Sub-Titles

- ALMONDS -- LEADER, H. R. Wellman. BEGUN, 1927. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1927.
- APPLES -- LEADER, H. R. Tolley. BEGUN, 1926. PHASES COMPLETED, 1. Analysis of general situation with special emphasis on trends of production, prices, and related factors, 1910-1926. 2. Price analysis of Gravenstein apples. 1919-1930.
- APRICOTS -- LEADER, H. R. Wellman. BEGUN, 1926. PHASES COMPLETED, 1. Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1926. 2. Price analysis of canned apricots. 1923-24 to 1930-31.
- CHERRIES -- LEADER, H. R. Wellman. BEGUN, 1929. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices and related factors. 1910-1929.
- FIGS -- LEADER, S. W. Shear. BEGUN, 1929. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors partially completed.
- GRAPES -- LEADER, S. W. Shear. BEGUN, 1926. PHASES COMPLETED, 1. Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1926. 2. Analysis of California raisin sales. 1921-1929. 3. Price analysis of California fresh grapes. 1921-1929.

AGRICULTURAL ECONOMICS - PRICES

- GRAPEFRUIT -- LEADER, H. R. Wellman. BEGUN, 1928. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1928.
- LEMONS -- LEADER, H. R. Wellman. BEGUN, 1927. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1927.
- OLIVES -- LEADER, H. R. Wellman. BEGUN, 1930. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1921-1930.
- ORANGES -- LEADER, H. R. Wellman. BEGUN, 1927. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1927.
- PEACHES -- LEADER, H. R. Wellman. BEGUN, 1925. PHASES COMPLETED, 1. Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1925. 2. Price analysis of canned peaches. 1921-22 to 1930-31.
- PEARS -- LEADER, S. W. Shear. BEGUN, 1926. PHASES COMPLETED, 1. Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1929. 2. Price analysis of canned pears. 1921-22 to 1930-31.
- PLUMS -- LEADER, H. R. Tolley. BEGUN, 1927. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1927.
- PRUNES -- LEADER, S. W. Shear. BEGUN, 1927. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1927.
- WALNUTS -- LEADER, H. E. Erdman. BEGUN, 1926. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1928.
- FRUIT CONSUMPTION -- LEADER, S. W. Shear. BEGUN, 1929. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, exports, imports, consumption, and utilization. 1909-1930.
- BEEF CATTLE -- LEADER, Edwin C. Voorhies. BEGUN, 1927. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1927.
- DAIRY PRODUCTS -- LEADER, Edwin C. Voorhies. BEGUN, 1927. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1930.
- EGGS AND POULTRY -- LEADER, Edwin C. Voorhies. BEGUN, 1925. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1926.
- SHEEP AND WOOL -- LEADER, Edwin C. Voorhies. BEGUN, 1927. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1928.
- SWINE -- LEADER, Edwin C. Voorhies. BEGUN, 1928. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1930.

AGRICULTURAL ECONOMICS - PRICES

ALFALFA -- LEADER, E. W. Braun. BEGUN, 1930. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1930.

BARLEY -- LEADER, E. W. Braun. BEGUN, 1930. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1930.

BEANS -- LEADER, E. W. Braun. BEGUN, 1926. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1926.

WHEAT -- LEADER, E. W. Braun. BEGUN, 1929. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1929.

ASPARAGUS -- LEADER, H. R. Wellman. BEGUN, 1929. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1921-1929.

CANTALOUPEs -- LEADER, H. R. Tolley. BEGUN, 1926. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1910-1926.

LETTUCE -- LEADER, H. R. Wellman. BEGUN, 1926. PHASES COMPLETED, Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1917-1925.

WATERMELONS -- LEADER, H. R. Tolley. BEGUN, 1927. PHASES COMPLETED, 1. Analysis of general situation with special emphasis on trends of production, prices, and related factors. 1919-1926. 2. Price analysis of watermelons at Los Angeles. 1922-1927.

CONNECTICUT STORRS - Determination of the factors affecting the prices of the various types and grades of cigar leaf tobacco.

LEADER, H. B. Boyd. (Cooperating with B. A. E.). OBJECTIVE, To obtain data on representative prices of various grades and types of cigar leaf tobacco since 1900 and study the relation of the prices to production, acreage, stocks, imports, etc., as a basis for determining factors affecting price. Data will be obtained from farmers, dealers, and manufacturers relative to prices and grades, total production, and proportion of total crop in each grade. These data will be analyzed with reference to trend in prices, by type and grade, and the factors that affect prices.

IDAHO - A statistical analysis of some of the factors affecting prices of hogs in Idaho.

LEADER, T. L. Gaston. OBJECTIVE, To supplement data on hand, by an analysis of some of the pertinent statistical data in their relation to the hog enterprise in Idaho. AREA COVERED, Pacific coast hog markets. TIME, Data used 1900 to 1931. BEGUN, September 1, 1930. PHASES COMPLETED, All except less important factors affecting prices. PROBABLE COMPLETION, August 1, 1931.

AGRICULTURAL ECONOMICS - PRICES.

ILLINOIS - Investigation of prices of Illinois farm products.

LEADER, L. J. Norton. OBJECTIVE, To determine for corn, wheat, and other major products of Illinois farms: 1. The long-time trends in prices and in purchasing-power or unit-price equivalents. 2. The short-time variations in prices for the same product in markets in Illinois and elsewhere, with special reference to world markets. 3. The factors influencing the trends and variations. AREA COVERED, Chiefly Illinois, but data from areas that influence Illinois situation considered. TIME, Historical data to 1866; most emphasis 1920 to date. BEGUN, 1924. PHASES COMPLETED, Prices of Illinois farm products from 1866 to 1929; from 1921 to 1929; in 1930; and forecasting demand and supply. PROBABLE COMPLETION, Indefinite.

ILLINOIS - Hog price relationships between terminal markets used by Illinois farmers.

LEADERS, L. J. Norton and R. C. Ashby. OBJECTIVE, To study and determine: 1. Intermarket relationships in hog prices. 2. Causes of the normal differences between markets and of the variations in these differences. 3. Causes for the short-time fluctuations in prices, at the different markets. AREA COVERED, Chicago, East St. Louis, Indianapolis, and Cincinnati markets. TIME, 1926 to date. BEGUN, July, 1929. PHASES COMPLETED, 1. Daily price comparisons computed. Analysis largely made. 2. Four visits to each market to check comparability of hogs and other related points. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, January, 1932.

IOWA - A statistical analysis of secular, annual and monthly movements in the price of cash corn.

LEADER, Geoffrey S. Shepherd. OBJECTIVE, To explain these movements. AREA COVERED, United States, Iowa, and Chicago. TIME, 1866 to 1931. BEGUN, 1927. PHASES COMPLETED, Secular movements. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1933 or 1934.

IOWA - Grain price differentials between the surplus producing areas of Iowa and the deficit producing areas.

LEADERS, P. L. Miller, and R. C. Bentley. OBJECTIVE, To ascertain the facts concerning the local prices of Iowa's feed grains. AREA COVERED, Iowa. TIME, 1920-30. BEGUN, July 1, 1930. PHASES COMPLETED, A few series of data have been secured. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, June 30, 1933.

IOWA - Seasonal fluctuations in grain prices, with special reference to seasonal fluctuations in the relationship between "cash" and "future" prices.

AGRICULTURAL ECONOMICS - PRICES

LEADER, Frank Robotka. OBJECTIVE, To ascertain the normal relationship in above and the frequency and magnitude of derivations from normal, with special reference to oats. AREA COVERED, Analysis based on Chicago quotations with some reference to Iowa farm prices. TIME, 1910 or 1915 to present time. BEGUN, Summer of 1930. PHASES COMPLETED, None completed, but some data from elevators obtained and some market price data tabulated. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, July 1, 1932.

KENTUCKY - Agricultural prices.

LEADERS, H. B. Price, D. G. Card, and O. M. Farrington. OBJECTIVE, To study: 1. The history of prices of Kentucky farm products. 2. The factors affecting the trend of farm prices in recent years, and 3. The elements that contribute to the prices of individual farm products grown in Kentucky. AREA COVERED, Lexington and principal markets of Kentucky. TIME, 1913-1931. BEGUN, September, 1931. PROBABLE COMPLETION, June, 1932.

MAINE - Prices of farm products and price trends in Maine.

LEADER, Charles H. Merchant. OBJECTIVE, To obtain basic information on past and present prices received for farm products by Maine farmers. AREA COVERED, State of Maine. TIME, July 1, 1927 to June 30, 1932. BEGUN, July 1, 1927. PHASES COMPLETED, All data have been collected and nearly all information has been analyzed. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, December 31, 1931.

MASSACHUSETTS - Analysis of market prices for Massachusetts vegetables.

LEADER, Alexander E. Cance. OBJECTIVE, To find factors affecting market prices of Massachusetts vegetables and measure their influence. AREA COVERED, Boston market. TIME, 8 years. BEGUN, 1930. PHASES COMPLETED, Collection of data, tabulations nearly finished. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, 1931.

MICHIGAN - Indexes of prices and purchasing power of Michigan farm products.

LEADER, O. Ulrey. OBJECTIVE, Complete index of Michigan farm prices and purchasing power. AREA COVERED, Michigan. TIME, 1910 to date. BEGUN, September 1, 1930. PHASES COMPLETED, All data compiled, ready to write bulletin. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, November 15, 1931.

MINNESOTA - General prices.

LEADERS, O. B. Jesness, W. C. Waite, R. W. Cox, and D. D. Kittredge. OBJECTIVE, To determine the causal factors behind movements of farm prices in general, and prices of individual products in particular,

AGRICULTURAL ECONOMICS - PRICES

and to develop means of forecasting such movements. AREA COVERED, Central market prices. TIME, Varying, depending on particular product. BEGUN, July 1, 1925. PHASES COMPLETED, Large portion of work on corn and potato prices. PROBABLE COMPLETION, Continuing project.

MINNESOTA - Local prices of agricultural products in Minnesota.

LEADERS, W. C. Waite and L. F. Garey. OBJECTIVE, To determine the relation of local Minnesota prices to certain central market prices, to prices in other local areas, and the factors influencing these differences. AREA COVERED, Minnesota. TIME, 1910 to date. BEGUN, August 1, 1930. PHASES COMPLETED, Local prices of B. A. E. secured and tabulated and annual county average computed. PERCENTAGE COMPLETED, Most of the preliminary work. PROBABLE COMPLETION, Indefinite.

MINNESOTA - Market price quotations.

LEADER, D. D. Kittredge. OBJECTIVE, To develop the statistical and other principles upon which a good technique in the quoting of market prices should be based. AREA COVERED, Minnesota central markets. TIME, 1923-26. BEGUN, June, 1923. PHASES COMPLETED, Analysis of hog prices and weights at South St. Paul. PROBABLE COMPLETION, Nearly completed.

NEBRASKA - Economic studies in prices, volume of production and purchasing power of farm products.

LEADER, H. C. Filley. OBJECTIVE, A study of farm price trends and purchasing power of farm products. AREA COVERED, Selected areas in State. TIME, 1922 to present. BEGUN, 1922. PHASES COMPLETED, Much material collected and tabulated. PERCENTAGE COMPLETED, Indefinite.

NEW YORK CORNELL - Study of prices of farm products.

LEADERS, G. F. Warren, and F. A. Pearson. OBJECTIVE, To study: 1. Relation of prices of farm products to the general price level of commodities. 2. Relation of prices to volume of production in both farm and manufactured products. 3. Relation of prices of the same products, e. g. feeds, in the different primary and terminal markets. 4. Relation of prices to grades of products.

NEW YORK CORNELL - Some factors affecting the price of eggs received by New York poultry farmers.

LEADER, H. B. Boyd.

NEW YORK CORNELL - Effect of quality on the retail price of eggs.

AGRICULTURAL ECONOMICS - PRICES

(In cooperation with Messrs. Pyrke and Fee of the Department of Agriculture and Markets, Albany, New York). LEADER, A. R. Gans.

NEW YORK CORNELL -- A history of prices in New York City.

LEADER, G. F. Warren.

NEW YORK CORNELL - Prices and index numbers of prices for 11 groups of commodities and all commodities for 135 years.

LEADERS, G. F. Warren and F. A. Pearson.

NEW YORK CORNELL - History of farm prices in New York.

(In cooperation with Dr. O. C. Stine of the Division of H. & S. R. of B. A. E., U. S. D. A.). LEADER, S. E. Ronk.

NEW YORK CORNELL - Factors affecting changes in feed prices.

LEADERS, G. F. Warren and F. A. Pearson.

NEW YORK CORNELL - Factors affecting retail prices of fertilizers.

LEADER, E. E. Vial. PROGRESS, To be published.

NEW YORK CORNELL - Effect of quality on the farm price of grapes.

(Cooperating with Mr. H. D. Phillips of Department of Agriculture and Markets, Albany, New York). LEADER, F. A. Pearson.

NORTH DAKOTA - Farm prices in North Dakota in relation to production and surplus.

LEADERS, Rex E. Willard and H. E. Ratcliffe. OBJECTIVE, Calculate index numbers for North Dakota. To determine comparative prices in this and other areas, as of durum, hard spring, and winter wheat. To determine factors affecting prices as of flax, other commodities - incidentally. AREA COVERED, North Dakota and its relation to other areas. TIME, Continuous. BEGUN, 1927. PHASES COMPLETED, See North Dakota Station Bulletin No. 232. PROBABLE COMPLETION, Indefinite.

SOUTH DAKOTA - Correlation of South Dakota prices and production.

LEADERS, R. E. Post and Sherman E. Johnson. OBJECTIVE, To establish a series of historical prices and to determine the principal factors affecting prices and production of agricultural products in South Dakota. AREA COVERED, State. TIME, All available price data prior to 1910. BEGUN, 1925. PHASES COMPLETED, Historical and current summary of acreage, yield,

AGRICULTURAL ECONOMICS - PRICES

production, and numbers of livestock shipments and receipts, prices, and wages, etc. in South Dakota; not previously assembled and published as a convenient unit, 1890-1926. Physical and economic aspects involved in the production and marketing of South Dakota potatoes. Determination of a series of monthly prices paid to producers in South Dakota previous to 1910. PROBABLE COMPLETION, Carried as continuous study.

SOUTH DAKOTA - A study of the relation of transportation rates and facilities to farm prices and types of farming.

LEADER, Frank T. Hady. OBJECTIVE, First phase, to study the incidence of transportation rate changes on certain agricultural products. Second phase, to investigate the economic effects of the development and use of motor truck transportation. AREA COVERED, Project as originally drawn up covered the State of South Dakota. Motor truck phase has been studied in one area. TIME, 5-6 years, west of the Missouri River. BEGUN, January 1, 1928. PHASES COMPLETED, 1. Theoretical analysis of incidence of rate changes completed, 2. Study of motor truck transportation completed for one area. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1933.

WISCONSIN - Collection and analysis of farm price data in Wisconsin.

LEADER, W. P. Mortenson. OBJECTIVE, To make available a history of prices on Wisconsin farm products, and an analysis of such price movements. AREA COVERED, State of Wisconsin. TIME, 1840 to date. BEGUN, February 16, 1931. (Fully under way March 1, 1931). PHASES COMPLETED, Finishing collection of data. PERCENTAGE COMPLETED, 67%. PROBABLE COMPLETION, 1931.

INDEPENDENT INSTITUTIONS

UNIVERSITY OF CHICAGO - Factors affecting the price of wheat.

LEADERS, Lester S. Kellogg, and Professor Henry Schultz. AREA COVERED, United States. TIME, 1875-1930, with emphasis on 1896-1913. OBJECTIVE, To attempt to ascertain the factors which are most effective in the determination of the price of wheat and to derive statistical demand curves for wheat in terms of a period of years and also in terms of months. BEGUN, 1930. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, 1932-33.

AGRICULTURAL ECONOMICS

AGRICULTURAL STATISTICS

BUREAU OF AGRICULTURAL ECONOMICS

Revision of historical estimates of acreage and production of farm crops.

LEADERS, Joseph A. Becker, C. M. Purves, and Joseph L. Orr. COOPERATION, Division of S. & H. R., B. A. E. Various State departments or Boards of

AGRICULTURAL ECONOMICS - AGRICULTURAL STATISTICS

Agriculture and Agricultural Experiment Stations with which this division cooperates. BEGUN, March 1, 1923. PROBABLE COMPLETION, July, 1931 for acreage; July, 1932 for yields and production. Compilation of basic data nearly complete. Several States completed tentatively.

Historical revision of livestock estimates.

LEADERS, Charles L. Harlan, Joseph A. Becker, A. C. Brittain, and State Agricultural Statisticians. COOPERATION, Division of S. & H. R., B. A. E., various State Departments or Boards of Agriculture and Agricultural Experiment Stations with which this Division cooperates. BEGUN, January 1, 1925. PROBABLE COMPLETION, July, 1932.

Boll weevil as a factor in cotton production.

LEADERS, Joseph A. Becker and V. C. Childs. BEGUN, January 1, 1924. PROBABLE COMPLETION, Continuous. Further use of results made in 1930 cotton crop forecasts.

Estimates of milk production.

LEADERS, John B. Shepard and R. K. Smith. COOPERATION, Division of D. & P. P., B. A. E., and B. D. I. BEGUN, January, 1925. PROBABLE COMPLETION, Continuous. Annual estimates of production and utilization by States to be issued before July 1 of succeeding year.

A study of boll counts and other phenological data as related to probable yields of cotton.

LEADERS, V. C. Childs and statisticians in cotton States. BEGUN, October, 1924. PROBABLE COMPLETION, Continuous. To be used in preparing current cotton forecast.

Poultry and egg estimates.

LEADER, S. A. Jones. COOPERATION, Division of D. & P. P., B. A. E., BEGUN, January, 1925. PROBABLE COMPLETION, Continuous. First estimates published in September, 1929. Monograph on method published, December, 1930. Annual basis to be issued before July 1, succeeding year.

Study of the factors controlling the production of hogs.

LEADERS, Charles L. Harlan, and A. C. Brittain. COOPERATION, Division of L.M.&W. & Division of F. M. & C., B. A. E. BEGUN, May 1, 1928. PROBABLE COMPLETION, December, 1930. (Practically completed in February, 1931). Will be used when and if estimates are made of pig crops in actual numbers.

Forecasting yield per acre prior to harvest.

LEADERS, V. C. Childs, V. H. Church, C. D. Stevens, D. A. McCandliss and others. BEGUN, July 1, 1923. PROBABLE COMPLETION, Continuous. Results to be utilized in current reports as rapidly as developed. For individual States and individual crops results used in about a dozen instances in 1929 and numerous instances in 1930.

AGRICULTURAL ECONOMICS - AGRICULTURAL STATISTICS

Analysis, interpretation, application and use of market statistics on dairy and poultry products.

LEADERS, E. W. Gaumnitz, Roy C. Potts, L. M. Davis, Rob. R. Slocum and others. COOPERATION, Division of C. & L. E. and Division of S. & H. R. BEGUN, July 1, 1930. PROBABLE COMPLETION, Indefinite.

Interrrelation between agriculture and business.

LEADER, L. H. Bean. BEGUN, March 1, 1931. PROBABLE COMPLETION, November 1, 1931.

Cotton statistics.

LEADER, Elna Anderson. COOPERATION, Division of C. M., B. A. E. will be consulted. BEGUN, May 1, 1929. PROBABLE COMPLETION, December 30, 1931.

Statistics of fruits.

LEADERS, A. Dewees and F. C. Fitch. BEGUN, April 1, 1929. PROBABLE COMPLETION, September 30, 1931.

Hogs, pork and pork products.

LEADERS, A. Dewees and F. C. Fitch. BEGUN, March 15, 1929. PROBABLE COMPLETION, October 1, 1931.

Tobacco statistics.

LEADER, Lewis B. Flohr. COOPERATION, Tobacco Section, B. A. E. BEGUN, March, 1929. PROBABLE COMPLETION, December 31, 1931.

Revision of index numbers of prices received by farmers.

LEADER, L. H. Bean. BEGUN, May 1, 1931. PROBABLE COMPLETION, March 1, 1932.

STATE AGRICULTURAL EXPERIMENT STATIONS

NEW YORK CORNELL - Methods of forecasting changes in fertilizer consumption in various parts of the United States.

LEADER, A. R. Gans.

NEW YORK CORNELL - Index numbers of freight rates on New York farm products and on similar products from competing areas.

(Cooperating with V. M. Parshall, Department of Agriculture and Markets, Albany, New York). LEADERS, G. F. Warren, and F. A. Pearson.

NEW YORK CORNELL - Physical volume of production of metals, lumber, electric current and agriculture and all combined.

LEADERS, G. F. Warren and F. A. Pearson.

AGRICULTURAL ECONOMICS - AGRICULTURAL STATISTICS

INDEPENDENT INSTITUTIONS

HARVARD UNIVERSITY - A comparative analysis of methods of collecting and presenting statistics on agriculture, population and food supply of the different countries.

LEADERS, J. D. Black and Mary G. Lacy. AREA COVERED, Eventually if funds are continued, all of the important countries. OBJECTIVE, 1. To lay the foundation for the development of methods of collecting data on agriculture, population and food supply that will make international comparisons possible. 2. To furnish a guide to the use of the available statistics of the different countries. BEGUN, 1929. PERCENTAGE COMPLETED, Work on four countries nearly completed. PROBABLE COMPLETION, Indefinite.

AGRICULTURAL ECONOMICS

FARM INCOME

BUREAU OF AGRICULTURAL ECONOMICS

Estimates of the amount and value of the production of livestock by States. Part of the study of farm income.

LEADERS, Charles L. Harlan and A. C. Brittain. COOPERATION, Division of S. & H. R., and Division of L. M. & W., B. A. E. BEGUN, January 1, 1923. PROBABLE COMPLETION, Continuous - Annual reports are to be made. First estimate of income published in September, 1929. Annual report to be issued before July 1, succeeding.

Utilization of crops by States. Part of the study of farm income.

LEADERS, Joseph A. Becker, S. A. Jones, Joseph L. Orr, Paul L. Koenig, and C. A. Carpenter. COOPERATION, Division of S. & H. R., B. A. E., all States in which the division cooperates. BEGUN, July 1, 1926. PROBABLE COMPLETION, Continuous - Annual reports are to be made. First estimates of income published in September, 1929. Annual report to be issued before July 1, succeeding year.

Income from agricultural production.

COOPERATION, Division of C. & L. E., Division of F. M. & C., Agricultural Finance, Land Economics, Dairy and Poultry, and Division of H. F. & S. BEGUN, March 1, 1931. PROBABLE COMPLETION, March 1, 1932.

A study of the ownership, operation and income of citrus groves in the central citrus area of Florida.

LEADER, H. W. Hawthorne. BEGUN, February 1, 1930. PROBABLE COMPLETION, January 1, 1932.

AGRICULTURAL ECONOMICS - FARM INCOME

Farm returns inquiry - 1927.

LEADER, S. W. Mendum. COOPERATION, Division of C. & L. E., and Machine Tabulating Unit, B. A. E. BEGUN, October, 1922. PROBABLE COMPLETION, Continued study.

Summaries from farm business studies.

LEADER, H. W. Hawthorne. BEGUN, 1924. PROBABLE COMPLETION, Continued study.

Income from the same farms for successive years.

LEADER, H. W. Hawthorne. BEGUN, 1926. PROBABLE COMPLETION, July, 1932.

STATE AGRICULTURAL EXPERIMENT STATION

MINNESOTA - Farmers' income in Minnesota.

LEADER, D. D. Kittredge. OBJECTIVE, To determine the incomes of Minnesota farmers. AREA COVERED, Minnesota. TIME, 1910 to date. BEGUN, June 10, 1923. PHASES COMPLETED, Indexes of gross cash income, quantities and prices 1910 to date. PROBABLE COMPLETION, Indexes will be continually brought to date.

OHIO - The cash income to Ohio agriculture.

LEADER, V. R. Wertz. OBJECTIVE, To determine the annual cash income and expense of Ohio farmers also to construct a monthly index of cash sales. AREA COVERED, Ohio. TIME, 1910 to date. BEGUN, 1926. PHASES COMPLETED, Up to 1931. PROBABLE COMPLETION, Continuous.

AGRICULTURAL ECONOMICS

COOPERATION

STATE AGRICULTURAL EXPERIMENT STATIONS

COLORADO - A study of the major types of cooperative organization or association in Colorado.

LEADER, D. N. Donaldson. OBJECTIVE, Investigating the causes for failure in the organization and operation of the major cooperative associations in Colorado. AREA COVERED, State-wide in its application. TIME, 4 years. BEGUN, 1927. PHASES COMPLETED, General survey of the major types of cooperative organizations in Colorado. Also studies with respect to selected cooperative organizations. PERCENTAGE COMPLETED, Continuous. PROBABLE COMPLETION, To be continued.

AGRICULTURAL ECONOMICS - COOPERATION

FLORIDA - Farmers' cooperative associations in Florida.

LEADERS, H. G. Hamilton and Marvin A. Brooker. OBJECTIVE, To study: 1. The development and present status of farmers' cooperative associations in Florida. 2. The organization, management and financial set-up of farmers' cooperative associations. 3. The factors of farmers' cooperative associations that make for success or failure. AREA COVERED, State of Florida. TIME, All farmers' cooperative associations that have received a State charter and all unchartered associations that can be located regardless of date of organization. BEGUN, December, 1929. PHASES COMPLETED, The field work of making contacts with the associations and compiling the necessary data has been practically completed. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1933.

ILLINOIS - Study of farm bureau.

LEADERS, H. W. Mumford, R. C. Ross, and D. E. Lindstrom. OBJECTIVE, To study the farm bureaus in Illinois to determine: 1. The adequacy of present programs in meeting the needs of farmers, and 2. the county and local organizational set-up and its adequacies and 3. whether adaptations can be made to supply additional services needed and to maintain a permanent and satisfactory service for farmers. AREA COVERED, Entire State. TIME, Indefinite. BEGUN, September 1, 1926. PHASES COMPLETED, Study of the county organizational set-up and a partial study of the local organizational set-up of the farm bureaus in selected counties. PERCENTAGE COMPLETED, Indeterminate. PROBABLE COMPLETION, Study is continuous.

ILLINOIS - Compulsory cooperation in controlling market supplies of farm products in selected countries.

LEADERS, C. L. Stewart and R. W. Bartlett. OBJECTIVE, 1. Causes of and extent of public control in production and marketing of agricultural products. 2. Types of cooperative organization and operation initiated and/or reinforced by governmental action. 3. Effects of public control through compulsory features. 4. Administrative methods employed. AREA COVERED, Australia, Canada (British Columbia), Finland, Greece, New Zealand, and possibly elsewhere. TIME, 15 months. BEGUN, May, 1930. PROBABLE COMPLETION, Indefinite.

ILLINOIS - An intensive study of livestock shipping associations in Illinois.

LEADER, R. C. Ashby. OBJECTIVE, To secure adequate information regarding practices, problems and progress of livestock shipping associations in Illinois. AREA COVERED, State-wide. TIME, 1926. BEGUN, 1926. PHASES COMPLETED, Original study completed but development of cooperative concentration points will require an additional phase of study. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1933.

AGRICULTURAL ECONOMICS - COOPERATION

TENNESSEE - A study of particular cooperative organizations in Tennessee.

LEADER, C. E. Allred. OBJECTIVE, By means of a study of particular organizations, successful and unsuccessful, to learn the facts and determine as nearly as possible the causes of success and failure of cooperative organizations. AREA COVERED, State of Tennessee. TIME, Until significant results are obtained. BEGUN, July 1, 1927. PHASES COMPLETED, Data gathered on organizations concerned in marketing strawberries and sweet potatoes; not yet completely analyzed. PERCENTAGE COMPLETED, 70%. PROBABLE COMPLETION, 1933.

VERMONT - Financial and economic study of Vermont cooperative business organizations with emphasis on cooperative creameries.

LEADER, Harold C. Grinnell. OBJECTIVE, To determine weaknesses in operating efficiencies and financial structure; to provide for effective extension work. AREA COVERED, State of Vermont. TIME, 1925 to 1929 and such earlier years as are readily available. BEGUN, July 1, 1930. PHASES COMPLETED, Operating statements and balance sheets completed, analyzed and tabulated. Introductory work done. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, November, 1931.

VIRGINIA - An economic study of farmers' cooperating purchasing and selling organizations in Virginia.

LEADERS, H. N. Young and R. C. Talbot. OBJECTIVE, To determine the factors affecting the success or failure of farmers' cooperative business organizations. AREA COVERED, State of Virginia. TIME, July 1, 1931 until completed. BEGUN, July 1, 1931 by this station. PHASES COMPLETED, Field work. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, June, 1932.

VIRGINIA - A study of the attitudes of rural people toward organizational policies and problems, together with the reasons for prevailing attitudes.

LEADERS, W. E. Garnett and C. H. Hamilton. OBJECTIVE, To ascertain reasons for support or lack of support of local organizations. AREA COVERED, Virginia. TIME, July 1, 1925. BEGUN, July 1, 1925. PERCENTAGE COMPLETED, 25%.

WASHINGTON - The causative factors of success or failure in the last five years growth and development of Washington cooperatives.

LEADER, E. F. Dummeier. OBJECTIVE, To determine the causative factors of success or failure in the last five years growth and development of Washington cooperatives. AREA COVERED, Pullman, Washington, and throughout the State of Washington. TIME, 5 years. BEGUN, September 18, 1930.

AGRICULTURAL ECONOMICS - COOPERATION

PHASES COMPLETED, Data have been assembled about most of the cooperative organizations of the State and tabulations have been begun. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1932.

WYOMING - Study of cooperative marketing associations in Wyoming.

LEADERS, A. F. Vass, O. A. Negaard. OBJECTIVE, To determine the history and development of agricultural cooperative associations in the State, and the facts which have been influential in determining the success or the failure of the various associations. AREA COVERED, Wyoming. TIME, 5 years. BEGUN, January 6, 1930. PHASES COMPLETED, The books and the organization of all the cooperatives in Wyoming were studied. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, Uncertain. The project was in abeyance beginning July 1931, because of lack of money to get a marketing man.

INDEPENDENT INSTITUTIONS

UNIVERSITY OF NORTH CAROLINA - The Tri-State tobacco cooperative association.

LEADER, Clifton J. Bradley. OBJECTIVE, A study of the preliminary organization and operation with possible causes of failure of the Tri-State tobacco cooperative association.

UNIVERSITY OF NORTH CAROLINA - History and development of the peanut industry with special reference to cooperative associations.

LEADER, Boone D. Tillett. OBJECTIVE, The data are based upon actual records taken in the peanut area of North Carolina and Virginia. A history of the three peanut cooperative associations--The Peanut Growers' Association, the Georgia Peanut Growers' Cooperative Association, and the Humphreys County Peanut Growers Association is included.

UNIVERSITY OF NORTH CAROLINA - Cigarette tobacco: The economic obstacles of cooperative marketing.

LEADER, T. J. Woofter, Jr. OBJECTIVE, A study of the supply and demand and the price of cigarette tobacco and the effect on cooperative marketing.

UNIVERSITY OF VIRGINIA - The cotton cooperative in the South.
(Institute for Research in the Social Sciences)

LEADERS, Wilson Gee with Edward A. Terry as research associate. AREA COVERED, Cotton-growing States in southeastern United States. TIME, Beginning indefinite according to beginnings of various associations. Definite from 1920 to present. OBJECTIVE, To present history and operations of cooperative cotton marketing. BEGUN, July 1, 1930. PROBABLE COMPLETION, 1932

AGRICULTURAL ECONOMICS

AGRICULTURAL FINANCE

BUREAU OF AGRICULTURAL ECONOMICS

Regional study of short-time agricultural credit in five cotton States.

LEADER, D. L. Wickens. BEGUN, January, 1927. PROBABLE COMPLETION, September, 1931.

Farm mortgage credit in the United States 1929 and 1930.

LEADER, D. L. Wickens. BEGUN, February, 1930. PROBABLE COMPLETION, October, 1931.

Volume, sources, and cost of farm mortgage loans.

LEADER, D. L. Wickens. BEGUN, March 1, 1929. PROBABLE COMPLETION, Reports will be issued periodically.

Cooperative credit--credit corporations affiliated with cooperative marketing associations in cotton.

LEADER, W. H. Rove. COOPERATION, Division of Cooperative Marketing, Federal Farm Board. BEGUN, April 1, 1929. PROBABLE COMPLETION, June 1, 1931.

Influence of short-term interest rates upon the availability and cost of agricultural credit for production purposes.

LEADER, Norman J. Wall. BEGUN, December 1, 1929. PROBABLE COMPLETION, December 31, 1931.

The influence of monetary factors on the fluctuation in the wholesale price of farm products.

LEADER, Norman J. Wall. BEGUN, December 1, 1929. PROBABLE COMPLETION, June 1, 1931.

Production credit in the eastern counties of Virginia.

LEADERS, Fred L. Garlock and Burton D. Seeley. COOPERATION, Division of F. M. & C., Virginia Agricultural Experiment station. BEGUN, July 15, 1929. PROBABLE COMPLETION, March 1, 1932.

Policies and experiences of Iowa banks with loans to farmers under varying agricultural and banking conditions.

LEADERS, Fred L. Garlock and Norman J. Wall. BEGUN, August 15, 1930. PROBABLE COMPLETION, December 31, 1931.

Livestock insurance in the United States.

LEADER, V. N. Valgren. BEGUN, October, 1928. PROBABLE COMPLETION, July 1, 1931.

Employers' liability insurance for farmers.

LEADER, V. N. Valgren. BEGUN, March 10, 1930. PROBABLE COMPLETION, December 31, 1931.

AGRICULTURAL ECONOMICS - AGRICULTURAL FINANCE

Farm fire losses.

LEADER, V. N. Valgren. BEGUN, March, 1930. PROBABLE COMPLETION, July 1, 1931.

STATE AGRICULTURAL EXPERIMENT STATIONS

ARKANSAS - Farm credit.

LEADER, B. M. Gile. OBJECTIVE, To analyze the basic sources, and costs of farm credit. AREA COVERED, Entire State. TIME, A period of years. BEGUN, 1925. PHASES COMPLETED, Local survey practically completed. PERCENTAGE COMPLETED, 67% PROBABLE COMPLETION, 1933.

KENTUCKY - Agricultural credit and finance in Kentucky.

LEADERS, H. B. Price and C. J. Bradley. OBJECTIVE, To study the agricultural credit situation in Kentucky, including the methods and agencies of long-time, intermediate and short-term credit in the State, for the purpose of ascertaining what the needs are, how they are being met, and what improvements are possible. AREA COVERED, Kentucky. TIME, No restrictions. BEGUN, 1926. PHASES COMPLETED, Survey of agricultural credit in the State. PERCENTAGE COMPLETED, 50% of present phase. PROBABLE COMPLETION, June, 1932.

MINNESOTA - Agricultural credit.

LEADER, E. C. Johnson. OBJECTIVE, To help promote a clearer understanding of the problem and to assist existing credit agencies to a better handling of their problems. AREA COVERED, Minnesota. TIME, Indefinite. BEGUN, July 1, 1925. PHASES COMPLETED, General credit situation in Minnesota and the problems and services of credit corporations. PROBABLE COMPLETION, A continuing project. Study of reasons for farm mortgage foreclosures now being made will be completed about July 1, 1932.

NEW YORK CORNELL - Farm credit study.

OHIO - Farm mortgage foreclosures by life insurance companies in Ohio.

LEADER, F. L. Morison. OBJECTIVE, To determine the extent and other data relating to farm mortgage foreclosures. AREA COVERED, Ohio. TIME, Since 1927. BEGUN, 1927. PHASES COMPLETED, 4 years data. PROBABLE COMPLETION, Indefinite.

OHIO - Farm mortgage credit in three Ohio counties.

LEADER, V. R. Wertz. AREA COVERED, 3 counties. TIME, 1910 to date. BEGUN, 1931. PHASES COMPLETED, Collecting data. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1932.

AGRICULTURAL ECONOMICS - AGRICULTURAL FINANCE

SOUTH CAROLINA - Farm credit study of Orangeburg area.

LEADERS, W. C. Jensen and M. Guin. OBJECTIVE, Determine sources, costs and efficiency of uses of credit on farms. AREA COVERED, Orangeburg County. TIME, 1 year. BEGUN, 1930. PHASES COMPLETED, 160 records have been obtained. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, 1931.

SOUTH DAKOTA - A study of the credit needs of South Dakota agriculture and of the credit agencies serving it.

LEADER, Gabriel Lundy. OBJECTIVE, To get an accurate picture of the agricultural credit situation in South Dakota; to analyze the problems; and suggest means of improvement. AREA COVERED, State of South Dakota and selected areas within the State. TIME, 3 to 5 years. BEGUN, 1928. PHASES COMPLETED, Brookings County, to 1927. Considerable classification work done on Hyde County data, and data brought up to date (end of 1930) on all counties. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, March, 1932.

TEXAS - Volume of business in relation to efficiency and earnings of banks.

LEADER, V. P. Lee. OBJECTIVE, To determine the relation of volume of business to efficiency and earnings of banks. AREA COVERED, State-wide. TIME, 2 years. BEGUN, May 1, 1929. PHASES COMPLETED, Data assembled and tabulated. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, January 1, 1932.

UTAH - A study of factors influencing the financial condition of certain Utah irrigation and drainage projects: D. Economic phase.

LEADER, W. P. Thomas. OBJECTIVE, To study the influence of certain economic factors on the financial conditions of the farming area in west Millard County, Utah. AREA COVERED, Farming area in west Millard County, Utah near Delta, Utah. TIME, 3 years. BEGUN, 1929. PHASES COMPLETED, Farm management analyses of the farm business for past two years have been made for area studied. Other general information collected; yields; water available; and public and private indebtedness. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, Spring, 1932.

WASHINGTON - Financing Washington cooperative organizations.

LEADER, E. F. Dummeier. OBJECTIVE, 1. Determine extent of fixed investments, operative capital requirements, borrowed funds, and net worth of Washington cooperative associations. 2. Costs of borrowed funds to such associations. 3. The factors and conditions which have resulted in high costs and those which have resulted in low costs of such funds. 4. The extent to which it is desirable that cooperatives be financed by their own members and the extent to which financing from outside sources is advantageous. 5. The most desirable methods of providing funds by borrowing

AGRICULTURAL ECONOMICS - AGRICULTURAL FINANCE

and from members, for example, the relative advantages under different conditions of capital stock on the basis of acreage of product to be marketed by the member, number of cows, etc., in contrast to revolving capital provided by withholding a part of the returns from products marketed, issuing stock therefor, and later redeeming such stock by deductions on products later marketed. 6. Needed and desirable improvements in present methods of financing cooperative marketing organizations in Washington and the most feasible and promising methods of securing such improvements. AREA COVERED, State of Washington. TIME, The last five years. BEGUN, September 18, 1930. PHASES COMPLETED, Financial reports have been secured from most of the organizations in the State and tabulations have been begun. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1932.

INDEPENDENT INSTITUTIONS

UNIVERSITY OF NORTH CAROLINA - Negro agricultural credit conditions in North Carolina.

LEADER, Roland B. Eutsler. OBJECTIVE, A study of the credit facilities available for Negro farmers in twelve North Carolina counties selected as representative.

AGRICULTURAL ECONOMICS

FARM TAXATION

BUREAU OF AGRICULTURAL ECONOMICS

Estimate of annual changes per acre in farm taxation.

LEADERS, Eric Englund and B. W. Allin. COOPERATION, Division of C. & L. E., B. A. E. BEGUN, March 1, 1927. PROBABLE COMPLETION, Annually about June 1.

Farm taxation in New Jersey.

LEADER, A. G. Waller. COOPERATION, New Jersey Agricultural Experiment Station. BEGUN, November 15, 1927. PROBABLE COMPLETION, June 30, 1930.

Miscellaneous problems in taxation as it relates to agriculture.

LEADERS, Eric Englund and B. W. Allin. BEGUN, February 1, 1930. PROBABLE COMPLETION, Periodic reports will be issued.

STATE AGRICULTURAL EXPERIMENT STATIONS

ARKANSAS - Farm taxation.

LEADER, C. O. Brannen. OBJECTIVE, Three phases: 1. Study of taxes in relation to incomes of farmers as compared with other occupational groups.

AGRICULTURAL ECONOMICS - FARM TAXATION

2. Comparison of assessed valuations on farm property as compared with other groups. 3. Comparison of public services obtained by farmers as compared with other groups. AREA COVERED, Entire State. TIME, A period of years. BEGUN, 1925. PHASES COMPLETED, First phase. PERCENTAGE COMPLETED, 33%. PROBABLE COMPLETION, Indefinite.

COLORADO - A study of taxation in Colorado, particularly in its relation to the agricultural industry.

LEADER, G. S. Klemmedson. OBJECTIVE, The object of this study is to ascertain the present status of farm taxation in Colorado and the total burden of taxation for selected years; also to determine whether a revision of existing tax laws would lead to more equitable taxation. AREA COVERED, State-wide in its application. TIME, 5 years. BEGUN, 1926. PHASES COMPLETED, General expenditures in Larimer County; also studies with respect to the financing of schools in Larimer County. PROBABLE COMPLETION, Continuous.

DELAWARE - Studies in farm taxation in Delaware.

LEADER, M. M. Daugherty. OBJECTIVE, To ascertain amounts and trends of farm taxes, and the causes for these amounts and trends. AREA COVERED, State of Delaware. TIME, 1927-1932. BEGUN, September 15, 1927. PHASES COMPLETED, 1. Assessment of real property; 2. Highway finance. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, September, 1932.

KENTUCKY - Farm real estate taxation in Kentucky.

LEADERS, H. B. Price, and T. P. Cooper. OBJECTIVE, To study the trend of farm real estate taxation for the period 1913-1931, in order to determine to what extent farming in Kentucky is affected by taxes on real estate. AREA COVERED, 20 or 30 counties representative of different types of farming in Kentucky. TIME, 1913-1931. BEGUN, July 1, 1931. PROBABLE COMPLETION, June, 1932.

LOUISIANA - Farm tax revision for Louisiana.

LEADERS, R. L. Thompson and B. W. Allin. OBJECTIVE, 1. Possibilities for farm tax reduction. 2. Effects of levying taxes on bases of rental rather than selling value. 3. Comparison of ratios of farm taxes to farm incomes with similar ratios of other occupational groups. 4. Changes in taxes paid over period of 18 years. AREA COVERED, State of Louisiana. TIME, Tax changes, 1913 to date. Assessment conveyance data, 1925 to 1930. Ratios of taxes to incomes, 1930. BEGUN, January, 1931. PHASES COMPLETED, 60% of data have been collected. PERCENTAGE COMPLETED, 20%. PROBABLE COMPLETION, July, 1932.

AGRICULTURAL ECONOMICS - FARM TAXATION

MARYLAND - The farm tax problem in Maryland.

LEADERS, S. H. DeVault and W. P. Walker. OBJECTIVE, To obtain information on the sources of revenue in this State; the burden of taxation; inequality in local assessments; and the expenditures of tax revenues. AREA COVERED, Eight representative counties in Maryland. TIME, 1930 to 1932. BEGUN, April, 1930. PHASES COMPLETED, Burden of taxes; inequality in assessment; workings of the State income tax and sales tax in this and other countries. PERCENTAGE COMPLETED, 67%. PROBABLE COMPLETION, 1932.

MICHIGAN - School taxation in Michigan.

LEADER, F. M. Thrun. OBJECTIVE, Demonstration of the inequity in the present system of financing the public schools and the formulation of a practical method of equalizing the cost of the State's minimum program. AREA COVERED, Michigan. BEGUN, 1928. PHASES COMPLETED, Project completed.

MICHIGAN - Cost of local government in Michigan.

LEADER, F. M. Thrun. OBJECTIVE, The objectives of this project would be the studying of the organization, revenues, expenditures and business methods of the local governmental units with the view of answering the following questions: 1. Whether it is possible to control and reduce local governmental costs. 2. Whether these costs can be more equitably distributed. 3. Whether the organization and business methods of these local units may be improved. AREA COVERED, Selected counties in Michigan. BEGUN, July 1, 1931. PHASES COMPLETED, The scope of the project is in the process of delimitation in connection with the recently appointed governor's commission on local government.

MINNESOTA - Taxation in relation to agriculture.

LEADER, O. B. Jesness. OBJECTIVE, To assist in development wise programs of public expenditure for rural districts, and better methods of administering taxation. AREA COVERED, Minnesota. BEGUN, July 1, 1925. PHASES COMPLETED, Assessment study completed. PROBABLE COMPLETION, Uncertain as we expect to study other phases.

MISSOURI - Missouri farmers tax position.

LEADER, C. H. Hammar. OBJECTIVE, To find the position occupied by the Missouri farmer in providing revenue for State and local purposes. AREA COVERED, Entire State. TIME, 1919-29. BEGUN, 1929. PHASES COMPLETED, Entirely completed.

MISSOURI - Assessment and taxation of farm real estate in Missouri.

LEADER, C. H. Hammar. OBJECTIVE, A study of the uniformity and completeness of methods of assessment and equality of taxation of farm real estate

AGRICULTURAL ECONOMICS - FARM TAXATION

in Missouri. AREA COVERED, Entire State. TIME, 1930-31. BEGUN, 1930. PHASES COMPLETED, The field data are completed, and most of the tabulations finished. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, February 1, 1932.

NEW YORK CORNELL - Relation of income to taxes.

LEADER, M. S. Kendrick.

NEW YORK CORNELL - A study of factors affecting the efficiency of local government.

LEADERS, M. P. Catherwood, and H. M. Haag.

OHIO - The costs of local government in Ohio.

LEADER, H. R. Moore. OBJECTIVE, To make an analysis and interpretation of local government costs in Ohio. AREA COVERED, Ten Ohio counties. TIME, 1910. BEGUN, 1930. PHASES COMPLETED, Collecting data. PERCENTAGE COMPLETED, 20%. PROBABLE COMPLETION, 1932.

OKLAHOMA - Taxation as it affects agriculture.

LEADER, J. T. Sanders. OBJECTIVE, To compare the burden of taxation on farmers with that of other interests in the State. AREA COVERED, Estimates of total taxes paid by farmers by crop reporting districts have been made. Comparison of taxes paid and income on farm and city property has been secured in four counties. TIME, Estimates have been made of total farm taxes from 1908 to 1930. Taxes and income in the four counties are from 1920 to 1930. BEGUN, 1926. PROBABLE COMPLETION, 1932.

OREGON - Incidence of public school taxes in Oregon.

LEADER, W. H. Dreesen. OBJECTIVE, To discuss the distribution of school tax burden under present revenue laws of Oregon. AREA COVERED, All counties, possibly one or two exceptions. TIME, 3 years. BEGUN, 1929. PHASES COMPLETED, Field work completed. Much analysis completed. PERCENTAGE COMPLETED, 65%. PROBABLE COMPLETION, June, 1932.

PENNSYLVANIA - A study of taxation in Pennsylvania.

LEADERS, F. P. Weaver and P. I. Wrigley. OBJECTIVE, Determine the distribution of the tax burden in Pennsylvania, the equity of the distribution from the standpoint of tax paying ability and the factors which determine the distribution under the present tax system. AREA COVERED, State of Pennsylvania. TIME, 6 years to date and will continue. BEGUN, 1925. PHASES COMPLETED, Assessments, some work on costs of tax collec-

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tion, and portion of total tax load carried by agriculture and mining. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, Not determined.

SOUTH CAROLINA -- Taxation and "ability to pay" in South Carolina.

LEADER, G. H. Aull. OBJECTIVE, To ascertain the relation between the amount of taxes paid by different groups of individuals (farmers, lawyers, etc.) and their tax-paying ability as measured by different standards. AREA COVERED, Selected areas, representative of the State. TIME, 2 years, 1929-30. BEGUN, March, 1931. PHASES COMPLETED, Material collected. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, July, 1932.

TENNESSEE - Taxation of farm property in Tennessee.

LEADER, C. E. Allred. AREA COVERED, A few typical agricultural counties in Tennessee. TIME, Until significant results are obtained. BEGUN, July 1, 1927. PHASES COMPLETED, Most of the necessary field work in three counties has been done, and four preliminary reports prepared. PERCENTAGE COMPLETED, 65%. PROBABLE COMPLETION, 1934.

TEXAS - Farm taxation in Texas.

LEADER, L. P. Gabbard. OBJECTIVE, To study the prevailing system of tax assessment in relation to the burden of taxation on the property taxed. AREA COVERED, State of Texas, related however to type-of-farming areas within the State. BEGUN, January 1, 1929. PHASES COMPLETED, Field data assembled--much of it tabulated. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, 1932.

VIRGINIA - Rural and urban taxation in Virginia.

LEADERS, H. N. Young and Roy A. Ballinger. OBJECTIVE, To ascertain the facts concerning the rural and urban tax situation with respect to the burden of taxation, methods of assessments, etc., in order that suggestions may be made for improvement. AREA COVERED, State of Virginia. TIME, 1927. BEGUN, 1927. PHASES COMPLETED, Taxes on farm and urban real estate tax laws of Virginia. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, October, 1931.

VIRGINIA -- A study of real estate assessments in Virginia.

LEADER, R. A. Ballinger. OBJECTIVE, To determine the method of operation of the local boards of equilization and the effect of same on change in real estate assessments in Virginia. AREA COVERED, State of Virginia. TIME, July 1, 1931 until completed. BEGUN, July 1, 1931. PHASES COMPLETED, Field work started. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, June, 1932.

AGRICULTURAL ECONOMICS - FARM TAXATION

WISCONSIN - Study of tax delinquency and land use in northern Wisconsin.

LEADERS, G. S. Wehrwein, W. A. Rowlands (R. Zon of Lake States Forest Experiment Station). OBJECTIVE, To aid northern Wisconsin counties in the determination of a sound program of handling the tax delinquency and land utilization. AREA COVERED, Northern Wisconsin. TIME, Has been underway 2 years. Indefinite. BEGUN, 1929. PHASES COMPLETED, 6 counties covered. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, Indefinite.

WISCONSIN - Possible farm tax reduction through changes in the forms, methods and functions of local government.

LEADERS, G. S. Wehrwein and B. W. Allin of B. A. E. OBJECTIVE, To study possibility of affecting economies in costs of local government in townships and counties. AREA COVERED, Wisconsin. (U. S. D. A. is also working in other States). TIME, Indefinite, but at least one year. BEGUN, July, 1931. PROBABLE COMPLETION, 1932.

WISCONSIN - Who pays for the roads?

LEADER, B. H. Hibbard. OBJECTIVE, To find out what percentage of the cost of the open country roads comes from farmers and the percentage that comes from the residents of the cities and villages. AREA COVERED, State of Wisconsin. TIME, 1926-1930 inclusive. BEGUN, September 20, 1930. PHASES COMPLETED, All the data have been gathered except a small amount to be obtained in the field. PERCENTAGE COMPLETED, 70%. PROBABLE COMPLETION, October 15, 1931.

AGRICULTURAL ECONOMICS

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BUREAU OF AGRICULTURAL ECONOMICS

Geography of the dairy industry.

LEADERS, T. R. Pirtle and Dr. O. E. Baker. COOPERATION, Division of Land Economics, B. A. E.; B. D. I. BEGUN, October, 1928. PROBABLE COMPLETION, December 30, 1931.

Forest policies and developments.

LEADER, Arthur C. Ringland. COOPERATION, Forest Service. PROBABLE COMPLETION, Indefinite.

Summary of statistics on farm tenure in the United States.

LEADER, H. A. Turner. BEGUN, July, 1929. PROBABLE COMPLETION, April, 1931.

Changes in land utilization and agricultural production since the World War.

LEADERS, O. E. Baker, and Misses Bradshaw and Zeitler. COOPERATION, Permission by Census Bureau and Division of C. & L. E., B. A. E., to copy

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unpublished data. BEGUN, February, 1926. PROBABLE COMPLETION, Livestock section issued October, 1929; the Crops section is expected to be completed about January 1, 1932.

Delimitation of agricultural regions and subregions on a physical basis. LEADERS, C. P. Barnes and F. J. Marschner. BEGUN, October, 1929. PROBABLE COMPLETION, April 1, 1931.

Changes in land utilization since 1900. LEADER, O. E. Baker. BEGUN, Spring, 1927. PROBABLE COMPLETION, January, 1932.

An economic classification of land and a regional development program for selected areas in New York State. LEADERS, C. F. Clayton and C. P. Barnes. COOPERATION, Cornell University Agricultural Experiment Station. BEGUN, July 1, 1930. PROBABLE COMPLETION, June 30, 1931.

Settler turnover and progress in northern Michigan, Wisconsin and Minnesota. LEADERS, L. C. Gray, W. A. Hartman, and J. S. Cotton. COOPERATION, Michigan State, Wisconsin, and Minnesota Agricultural Experiment Stations. BEGUN, May 15, 1928. PROBABLE COMPLETION, March, 1931.

The operations of active land settlement and colonization agencies in the United States. LEADER, W. A. Hartman. BEGUN, February 1, 1929. PROBABLE COMPLETION, Continuing project with probable first publication, 1931.

Readjustment of the landlord tenant relationships on the eastern shore of Maryland. LEADER, O. M. Johnson. BEGUN, November, 1925. PROBABLE COMPLETION, Field work completed. Manuscript in preparation.

A study of farms having an area of 1,000 acres or more. LEADER, O. M. Johnson. BEGUN, April, 1926. PROBABLE COMPLETION, A continuing project. A report of progress will be issued about July 1, 1931.

Study of land utilization in northern Pennsylvania. LEADERS, L. C. Gray, Millard Peck, O. M. Johnson and C. I. Hendrickson. COOPERATION, Pennsylvania Agricultural Experiment Station. BEGUN, February 1, 1928. PROBABLE COMPLETION, August, 1931.

Study of land utilization in marginal and sub-marginal areas of eastern Kentucky.

LEADERS, L. C. Gray, C. J. Galpin, H. W. Hawthorne and C. F. Clayton. COOPERATION, Division of F. M. & C. and Division of F. P. & R. L., B.A.E. and Kentucky Agricultural Experiment Station. BEGUN, July 15, 1928. PROBABLE COMPLETION, March, 1931.

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Study of land utilization and conditions of living in marginal and sub-marginal areas of eastern Kentucky.

LEADERS, L. J. Peet, H. W. Hawthorne, B. Frank, Merton Oyler, and W. C. Nason. COOPERATION, Division of F. P. & R. L., and Division of F. M. & C., B.A.E.; B. H. E., and Forest Service. BEGUN, July 16, 1930. PROBABLE COMPLETION, July, 1932.

Study of land utilization in selected hill towns of Vermont.

LEADERS, L. C. Gray and C. F. Clayton. COOPERATION, Vermont Agricultural Experiment Station. BEGUN, June, 1929. PROBABLE COMPLETION, May, 1931.

Study of economic and social conditions and problems of the Southern Appalachian Highlands.

LEADERS, L. C. Gray, C. L. Holmes, C. J. Galpin, Eric Englund, Hildegard Kneeland, R. E. Marsh and directors of agricultural experiment stations in the area. COOPERATION, Division of Land Economics; F. M. & C; F. P. & R. L; and Agricultural Finance Service; Bureau of Education of the Department of Interior; and State experiment station. BEGUN, July 1, 1931. PROBABLE COMPLETION, July 1, 1932.

The farm real estate situation.

LEADERS, E. H. Wiecking, B. R. Stauber. COOPERATION, Division of C. & L. E., and Agricultural Finance, B. A. E. BEGUN, March 1, of each year. PROBABLE COMPLETION, August-September of each year.

Relation of land income to land value, 1925.

LEADER, E. H. Wiecking. BEGUN, March 1, 1927. PROBABLE COMPLETION, Continuing project.

Valuation of real property in the Boeuf and Atchafalaya Basins and Red River backwater of the Mississippi flood control area.

LEADERS, C. I. Hendrickson, and H. H. Wooten. COOPERATION, Forest Service, B. C. & S; B. P. R; and Biological Survey. BEGUN, February 1, 1930. PROBABLE COMPLETION, Continuing project; preliminary report submitted to War Department, January, 1931.

Factors affecting land utilization (more particularly the public domain in the State of Nevada).

LEADER, E. O. Wooten. BEGUN, May, 1927. PROBABLE COMPLETION, March 1, 1931.

Land factors that are of importance in the development of northwestern Colorado.

LEADER, E. O. Wooten. COOPERATION, Colorado Agricultural Experiment Station. BEGUN, Field work, August 15, 1927. PROBABLE COMPLETION, June 30, 1931.

Public policies with respect to private sale and settlement of land in the United States.

LEADER, W. A. Hartman. BEGUN, April 15, 1930. PROBABLE COMPLETION, November, 1931.

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STATE AGRICULTURAL EXPERIMENT STATIONS

ARKANSAS - Study of economic uses of land for crops, livestock, and forestry, with particular reference to selected marginal farming areas.

LEADERS, Orville J. Hall and Lewis M. Turner. OBJECTIVE, To find the financial basis where land used for crops, livestock, and forestry becomes marginal and to determine the combination of crops and other enterprises that best fit particular soil types. AREA COVERED, Southern Arkansas. TIME, Indefinite. BEGUN, 1930. PHASES COMPLETED, First local survey. PROBABLE COMPLETION, Indefinite.

CALIFORNIA - Land utilization in Eldorado County.

LEADER, David Weeks. OBJECTIVE, To determine the boundaries of areas best suited for agriculture, forestry, recreation, water conservation, grazing, and other major uses, and to develop a plan for improving land utilization in the county. AREA COVERED, Eldorado County, California. BEGUN, December, 1930. PHASES COMPLETED, Field work has been completed. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, January, 1932.

COLORADO - An economic study of land utilization in northwestern Colorado.

LEADER, L. A. Moorhouse. OBJECTIVE, To study land utilization with the most profitable use in view. Farm management and farm organization phases have been considered in this study so that definite recommendations may be made to prospective settlers in the region. AREA COVERED, Northwestern Colorado. TIME, 4 years. BEGUN, 1927. PHASES COMPLETED, All phases incomplete. PERCENTAGE COMPLETED, 66%. PROBABLE COMPLETION, Two to three years.

DELAWARE - A study of land tenure in Delaware.

LEADER, R. O. Bausman. OBJECTIVE, To discover a more equitable and profitable system of land tenure under Delaware conditions. AREA COVERED, State of Delaware. BEGUN, July, 1928. PHASES COMPLETED, Grain and general farming areas completed. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, September, 1931.

ILLINOIS - Investigations of agricultural land tenure and transfer.

LEADER, C. L. Stewart. OBJECTIVE, To determine: 1. The extent and trend of ownership of farms by selected classes of owners. 2. The extent to which the land transfers evidence kinship and other non-commercial or semi-commercial tendencies in the land markets. 3. The variations in turnover of operation and ownership in various parts of the State. 4. Factors influencing the system of land tenure and land transfer favorably

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or unfavorably from the standpoint of the general public. AREA COVERED Illinois. TIME, 1910 to date. BEGUN, 1925. PHASES COMPLETED, Information on transfers - Champaign county down to date. Certain phases of census data 1925 and 1930. PROBABLE COMPLETION, Indefinite.

INDIANA - A study of land utilization in southern Indiana.

LEADER, G. E. Young. OBJECTIVE, To determine for the territory covered a land utilization program, based upon a thorough study of physical conditions, present methods of utilization, and economic factors which determine present and prospective utilization, such as physical resources of the region, market opportunities and requirements, etc. AREA COVERED, Intensive work in Washington County with possible extension later into other counties of the same general area. TIME, March 1, 1928. BEGUN, March 1, 1928. PHASES COMPLETED, 1. Two years carrying capacity and costs of pastures on 100 farms. 2. One hundred financial records. 3. Farm survey of all farms in one township. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, March 1, 1934.

IOWA - Stock-share form of farm leasing.

LEADER, Millard Peck. OBJECTIVE, To ascertain the conditions under which the stock-share lease is being used and the success which is obtained. AREA COVERED, State of Iowa. BEGUN, Approved April 1, 1931, but actual work began October 1, 1931. PERCENTAGE COMPLETED, 5%. PROBABLE COMPLETION, July 1, 1933.

IOWA - Study of farm mortgages and land values in selected counties in Iowa.

COOPERATION, B. A. E. LEADERS, A. G. Black and W. G. Murray. OBJECTIVE, To analyze county farm mortgage records to show trends of indebtedness and foreclosures. AREA COVERED, Story County, Iowa. TIME, 1854-1931. BEGUN, February 1, 1930. PHASES COMPLETED, Collection and tabulation of data. PERCENTAGE COMPLETED, 67%. PROBABLE COMPLETION, June 30, 1932.

IOWA - Factors affecting Iowa farm-land values.

LEADER, Millard Peck. OBJECTIVE, To measure the secular and short-time and geographic variations in the price of Iowa farm land; to determine the influence of various factors affecting the value of Iowa farm land and to find a satisfactory basis for appraising farm land. AREA COVERED, State of Iowa. BEGUN, June 28, 1926. PHASES COMPLETED, The trends of land values for specified counties in Iowa have been determined. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, July 1, 1933.

KANSAS - Investigations in land tenure and other land problems.

LEADER, Harold Howe. OBJECTIVE, The objective is to secure pertinent and useful information on land taxation, land values, land utilization,

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land acquisition, land classification, and other land problems which will aid in determining satisfactory land policies. AREA COVERED, State of Kansas. PROGRESS, Instituted in 1918. During the year 1918-19 the main objective was that of determining the steps through which individuals passed in acquiring ownership of land. From 1919 to 1921 little work was done on this project. In 1921, the study of taxation in its relation to land ownership was begun and main emphasis has been placed on that phase of the work ever since that time. In addition, an analysis of Kansas land values has been made and data on farm tenancy have been collected.

KENTUCKY - Farm tenancy in Kentucky.

LEADERS, W. D. Nicholls and Merton Oyler. OBJECTIVE, To make available facts concerning the status and trend of tenancy, the condition of tenants with respect to property ownership, the standards of living, personal and community relations of tenants and their families, the important factors determining the earnings of tenants and landlords and the attitudes of tenants and landlords mutually toward each other. AREA COVERED, Typical agricultural areas in western Kentucky. BEGUN, May 1929. PHASES COMPLETED, A small amount of data gathered. PERCENTAGE COMPLETED, 15%. PROBABLE COMPLETION, July 1, 1933.

KENTUCKY - A study of land utilization in marginal and submarginal areas of eastern Kentucky.

LEADERS, W. D. Nicholls, Merton Oyler, L. C. Gray, C. J. Galpin, and H. R. Tolley. OBJECTIVE, To determine the present uses of the land, to relate these uses to basic physical conditions, etc., using the data thus obtained to outline a land utilization program designed to improve the social and economic well-being of the area. AREA COVERED, Eight school districts in Laurel County, Kentucky. BEGUN, July 1, 1928. PHASES COMPLETED, Farm management and farm population phases completed. Manuscript on land utilization phase in process of preparation. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, December 31, 1931.

MARYLAND - Economic aspects of farm tenancy and leasing systems in Maryland.

LEADERS, S. H. DeVault and W. P. Walker. OBJECTIVE, To obtain information which will show the division of receipts and expenditures between landlord and tenant; crops grown and livestock kept; conditions surrounding present leasing contracts; to obtain more information to be used in an effort to work out an equitable leasing system in Maryland. AREA COVERED, State of Maryland. Confined principally to leading tenant counties. BEGUN, May 1, 1929. PHASES COMPLETED, Division of receipts and expenditures between landlord and tenant obtained for about 100 tenanted farms. Attitudes and practices in respect to farm tenancy obtained for same number of farms. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1932.

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MASSACHUSETTS - Recreational and forestry uses of land.

LEADER, David Rozman. OBJECTIVE, To find the amount and type of land in recreational and forestry uses, and to determine the effect on land values, etc. AREA COVERED, Massachusetts, typical areas. TIME, Largely the present. BEGUN, 1930. PHASES COMPLETED, Data collected, some tabulations made. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, 1932.

MICHIGAN - Recreational utilization of the "cut over land" in Michigan.

LEADER, W. O. Hedrick. OBJECTIVE, Appraisal of the value of summer resorts, fishing and hunting clubs, transient tourists and State parks to the economic welfare of the people of Michigan. AREA COVERED, Portions of Michigan north of a line from Saginaw to Muskegon. TIME, Contemporary time. BEGUN, July 1, 1931. PHASES COMPLETED, Data concerning resort plats from the Auditor General's office by which the location, ownership and dimensions of all the platted resorts in Michigan have been ascertained. PERCENTAGE COMPLETED, 2%. PROBABLE COMPLETION, Not definitely known.

MINNESOTA - Land economics survey.

LEADER, O. B. Jesness. OBJECTIVE, To make a land economic survey. AREA COVERED, Hubbard County (Where survey was started). BEGUN, July, 1929. PHASES COMPLETED, Field work and most of analysis for one county. PERCENTAGE COMPLETED, 80%, for first county. PROBABLE COMPLETION, 1932 for first county. Survey may be resumed if funds are appropriated.

MINNESOTA - A study of the farm lease situation in Minnesota.

LEADERS, George A. Pond and Wm. L. Cavert. OBJECTIVE, 1. To determine the relative proportion of tenant-operated farms in the principal type-of-farming areas in the State. 2. The type of leases in most common use in these areas and the specific terms of these leases. 3. To study these bases and determine the equitability of the respective contributions of landlord and tenant in relation to the share they receive of the product of these farms. 4. The principal problems involved in tenant and landlord relationships and to suggest solutions for these problems. 5. The effect of leases in operation on the quality of farming practiced. 6. To serve as a basis for suggesting methods of farm leasing and lease forms for the various types of farming in the State that are fair to both landlord and tenant and at the same time encourage stable and profitable utilization of our agricultural resources. AREA COVERED, Western one-half of State and southern one-third of eastern one-half. TIME, Indefinite. BEGUN, March 1, 1930. PHASES COMPLETED, Questionnaires were mailed out in 1930 to landlords and tenants. 355 replies covering 747 farms were received from landlords and 182 from tenants. The results

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of the questionnaires have been tabulated. PERCENTAGE COMPLETED, 33%. PROBABLE COMPLETION, Indefinite--may be maintained continuously to keep up with developments in the field.

MINNESOTA - An analysis of factors influencing farm land values in Minnesota.

LEADER, E. C. Johnson. OBJECTIVE, To determine the changes that have taken place in farm land values since 1910 in various agricultural regions of Minnesota, the factors causing these changes and the differences in values between regions. AREA COVERED, Minnesota. TIME, 1910 to present. BEGUN, September 8, 1931. PHASES COMPLETED, Gathering of data on farm sales just begun. PROBABLE COMPLETION, October, 1932.

MISSOURI - Farm real estate situation for Missouri for 1927-1930.

LEADER, C. H. Hammar. OBJECTIVE, To determine as nearly as possible the trend in real estate values. AREA COVERED, 13 Missouri counties. TIME, To be continued indefinitely. BEGUN, 1927. PHASES COMPLETED, Data complete through 1930.

MISSOURI - Land tenure in Missouri.

LEADERS, O. R. Johnson and B. H. Frame. OBJECTIVE, To follow from year to year the fortunes of tenant farming in Missouri and also to study farm lease contracts with a view to improving the working relationship between landlords and tenants. AREA COVERED, Entire State. TIME, Since 1913. BEGUN, 1913. PHASES COMPLETED, A study on rent rates and methods of leasing as reported in Bulletin 167 of this Station. PROBABLE COMPLETION, Continued indefinitely.

NEBRASKA - The farm land problem.

LEADERS, H. C. Filley and Harold Hedges. OBJECTIVE, Farm land price history, 1860-1930. Farm mortgages and land prices, York County, 1870-1930. Assessed and sales values of Nebraska farm land, 1921-1930. AREA COVERED, State-wide. BEGUN, 1923. PHASES COMPLETED, Data collected and tabulated. PROBABLE COMPLETION, 1932.

NEW HAMPSHIRE - Land utilization study.

LEADERS, M. G. Eastman, K. W. Woodward, and C. E. Walker. OBJECTIVE, To establish a basis for more intelligent town planning. AREA COVERED, Durham and Fremont, New Hampshire. TIME, 1929. BEGUN, November, 1929. PHASES COMPLETED, Strip survey of Durham completed and published. Field work in Fremont completed. PERCENTAGE COMPLETED, 95%. PROBABLE COMPLETION, 1934.

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NEW YORK CORNELL - Land utilization and regional planning.

LEADERS, F. F. Hill and A. B. Lewis.

NEW YORK CORNELL - Regional plans for Cayuga, Niagara, Ontario and Chautauqua Counties.

NEW YORK CORNELL - Methods of renting farms.

LEADER, J. F. Harriott.

OHIO - An index of farm real estate values in Ohio.

LEADER, H. R. Moore. OBJECTIVE, To devise sources of data, means of securing it, and ways of constructing an index of farm values. AREA COVERED, Ohio. TIME, 1923. BEGUN, 1924. PHASES COMPLETED, Up to date. PROBABLE COMPLETION, Continuous.

OHIO - Land utilization in Lawrence County, Ohio.

LEADER, J. I. Falconer. OBJECTIVE, To make a beginning in the study of the utilization of the poorer land in Ohio. AREA COVERED, Lawrence County. TIME, 1 year. BEGUN, April, 1931. PHASES COMPLETED, Collecting data. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, May, 1931.

OKLAHOMA - Economic aspects of tenancy and ownership in Oklahoma.

LEADER, J. T. Sanders. OBJECTIVE, To study the more important economic aspects of tenancy and ownership in the State. AREA COVERED, Special areas in the State. TIME, 1925 to date. BEGUN, 1925. PHASES COMPLETED, Special study of effects of tenant moving, also relation of credit to tenure and standard of living as related to tenure.

PENNSYLVANIA - Economic and social study of some supposedly marginal and sub-marginal farming communities in northern Pennsylvania.

LEADERS, W. V. Dennis, P. I. Wrigley, J. E. McCord and F. P. Weaver. OBJECTIVE, Determine the areas that are submarginal for farming. Analyze the farm management factors in the areas suitable for farming, and study the social problems of the region as well as the institutions which contribute to rural life. AREA COVERED, Tioga County, Pennsylvania. BEGUN, 1928. PHASES COMPLETED, Field work is mostly completed. Farm management analysis is in manuscript form. Social study is being analyzed and will be written during the year. The land utilization phase needs a little more field work and completion of analysis. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1932.

AGRICULTURAL ECONOMICS - LAND ECONOMICS

PENNSYLVANIA - Farm tenancy in Pennsylvania and forms of leases and contracts.

LEADER, J. E. McCord. OBJECTIVE, To determine the type of contract between tenants and landlords used in various parts of Pennsylvania and to obtain the necessary information for the improvement of these contracts. AREA COVERED, Southeastern, central, northern and western Pennsylvania. TIME, 1928-1929. BEGUN, 1928. PHASES COMPLETED, Mostly completed.

SOUTH CAROLINA - Farm land price studies.

LEADERS, W. C. Jensen, and B. A. Russell. OBJECTIVE, Determine farm land prices and factors affecting over a period of years. AREA COVERED, Florence County. TIME, 1875 to date. BEGUN, 1929. PHASES COMPLETED, Prices for 1925-1930 tabulated. PERCENTAGE COMPLETED, 20%. PROBABLE COMPLETION, 1932.

VERMONT - Land utilization in the Champlain Valley.

LEADER, T. J. Cauley. OBJECTIVE, To determine the best methods of utilizing the heavy, flat clay soils in the Champlain Valley region of Vermont. AREA COVERED, Towns of Ferrisburg, Panton, Addison, Bridport, Shoreham and Orwell. BEGUN, August 15, 1930. PHASES COMPLETED, Intensive study of the town of Addison and preliminary work in the other towns. PERCENTAGE COMPLETED, 20%. PROBABLE COMPLETION, August, 1935.

WISCONSIN - Recreational land as a form of land utilization.

LEADER, G. S. Wehrwein. OBJECTIVE, To determine possibilities of developing recreational uses for northern Wisconsin land. AREA COVERED, Selected counties in Wisconsin. BEGUN, 1930. PHASES COMPLETED, Bulletin ready for publication. PERCENTAGE COMPLETED, 100%.

WYOMING - Wyoming's land utilization and taxation problems as related to the agricultural development of the State.

LEADERS, A. F. Vass and Harry Pearson. OBJECTIVE, To study the rate, amount and distribution of tax load of State over period of years, increase in general property tax, increase in total taxes, per capita increase of general property and total taxes, relation of State income from different industries, and relation it bears to taxes paid by each of industries, and the amount of tax free property in each of the counties of the State. AREA COVERED, Wyoming. BEGUN, October, 1930. PHASES COMPLETED, The study of reports has largely been completed. The gathering of data in county offices is half completed. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, July, 1933.

INDEPENDENT INSTITUTIONS

HARVARD UNIVERSITY - Land utilization in New England.

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LEADER, J. D. Black. AREA COVERED, Six New England States considered as a unit. Inter-area relationships between New England and the rest of the United States will be especially stressed. TIME, The current situation but with whatever historical background is needed to explain it. OBJECTIVE, To furnish an analytical basis for a deliberate program of land utilization planning in New England; to develop land utilization principles. BEGUN, 1923. PERCENTAGE COMPLETED, The first state of it, consisting of an analysis of the available data concerning the problem looked at as a whole, will be completed by the end of the present calendar year and results published as a book to the Harvard University Press.

UNIVERSITY OF CHICAGO - The trends of agriculture in the Chicago region.

LEADERS, E. A. Duddy, Chairman of Committee, and R. H. Engle, Active Leader. AREA COVERED, Fifteen counties adjacent to Chicago approximating the Chicago Region as defined by the Chicago Regional Planning Association. TIME, The previous century in general, practically, 1860-1930. OBJECTIVE, To trace the development of agriculture in the metropolitan area of Chicago, to describe its changes, to explain the principal reasons therefor, and notice particularly how the region's agriculture may have been influenced by its urban areas. BEGUN, 1927. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, 1931-32.

UNIVERSITY OF CHICAGO - Type field studies in the pattern of agricultural occupancy of land in contrasted districts in Latin America.

LEADER, Robert S. Platt. AREA COVERED, Argentina, Brazil, Chile, Peru, Bolivia, Paraguay, Mexico, and Cuba. OBJECTIVE, Interpretation of some typical details of agricultural land occupancy. BEGUN, 1928. PERCENTAGE COMPLETED, Field work all completed; compilation of results about half completed. PROBABLE COMPLETION, 1932.

UNIVERSITY OF CHICAGO - Experiments with ratios and isopleth maps in determining the character and extent of various types of agricultural land occupancy.

LEADER, Wellington D. Jones. AREA COVERED, United States, Canada, Argentina, Uruguay, Chile, Australia, India, and Siberia. TIME, For recent years, in most cases 1925 or later. BEGUN, 1923. OBJECTIVE, The devising of quantitative measurements to show the area spread of associated agricultural phenomena which are characteristic of various types of farming in the countries named above.

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PENNSYLVANIA - Farm tenancy in Pennsylvania and forms of leases and contracts.

LEADER, J. E. McCord. OBJECTIVE, To determine the type of contract between tenants and landlords used in various parts of Pennsylvania and to obtain the necessary information for the improvement of these contracts. AREA COVERED, Southeastern, central, northern and western Pennsylvania. TIME, 1928-1929. BEGUN, 1928. PHASES COMPLETED, Mostly completed.

SOUTH CAROLINA - Farm land price studies.

LEADERS, W. C. Jensen, and B. A. Russell. OBJECTIVE, Determine farm land prices and factors affecting over a period of years. AREA COVERED, Florence County. TIME, 1875 to date. BEGUN, 1929. PHASES COMPLETED, Prices for 1925-1930 tabulated. PERCENTAGE COMPLETED, 20%. PROBABLE COMPLETION, 1932.

VERMONT - Land utilization in the Champlain Valley.

LEADER, T. J. Cauley. OBJECTIVE, To determine the best methods of utilizing the heavy, flat clay soils in the Champlain Valley region of Vermont. AREA COVERED, Towns of Ferrisburg, Panton, Addison, Bridport, Shoreham and Orwell. BEGUN, August 15, 1930. PHASES COMPLETED, Intensive study of the town of Addison and preliminary work in the other towns. PERCENTAGE COMPLETED, 20%. PROBABLE COMPLETION, August, 1935.

WISCONSIN - Recreational land as a form of land utilization.

LEADER, G. S. Wehrwein. OBJECTIVE, To determine possibilities of developing recreational uses for northern Wisconsin land. AREA COVERED, Selected counties in Wisconsin. BEGUN, 1930. PHASES COMPLETED, Bulletin ready for publication. PERCENTAGE COMPLETED, 100%.

WYOMING - Wyoming's land utilization and taxation problems as related to the agricultural development of the State.

LEADERS, A. F. Vass and Harry Pearson. OBJECTIVE, To study the rate, amount and distribution of tax load of State over period of years, increase in general property tax, increase in total taxes, per capita increase of general property and total taxes, relation of State income from different industries, and relation it bears to taxes paid by each of industries, and the amount of tax free property in each of the counties of the State. AREA COVERED, Wyoming. BEGUN, October, 1930. PHASES COMPLETED, The study of reports has largely been completed. The gathering of data in county offices is half completed. PERCENTAGE COMPLETED, 30%. PROBABLE COMPLETION, July, 1933.

INDEPENDENT INSTITUTIONS

HARVARD UNIVERSITY - Land utilization in New England.

AGRICULTURAL ECONOMICS - FARM LABOR

COMPLETED, Tabulations have been made from year to year of labor requirements of farm enterprises and operations and each subsequent year, that year's data have been added to preceding years' figures. PROBABLE COMPLETION, Continued indefinitely.

PENNSYLVANIA - Efficiency in the use of labor by farmers.

LEADERS, J. E. McCord and P. I. Wrigley. OBJECTIVE, Study the farm layout and building arrangement factors in their effect on efficiency in use of labor. AREA COVERED, Central and southeastern Pennsylvania. TIME, 1927 to 1932. BEGUN, 1927. PHASES COMPLETED, All field work. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1932.

AGRICULTURAL ECONOMICS

AGRICULTURAL ECONOMIC HISTORY

BUREAU OF AGRICULTURAL ECONOMICS

History of southern agriculture and land tenure prior to 1860 with special reference to the evolution of the plantation system.

LEADER, L. C. Gray. BEGUN, 1909. PROBABLE COMPLETION, May 1, 1931.

Historical study of agriculture in western New York, especially in Monroe County, and with particular attention to the materials in the diaries of the late Delos Tenny.

LEADER, Everett E. Edwards. BEGUN, August 15, 1927. PROBABLE COMPLETION, July, 1932.

INDEPENDENT INSTITUTIONS

GOUCHER COLLEGE - A study of eighteenth century agriculture in the county of Norfolk, England.

AREA COVERED, Norfolk, England. TIME, The Eighteenth Century. OBJECTIVE, To make an intensive study of the key county as it were, at the time of the agricultural revolution in England. BEGUN, January, 1930. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, January, 1932.

UNIVERSITY OF CHICAGO - The agricultural development of the Philippines during the American regime.

LEADERS, Jose P. Apostol, under direction of C. W. Wright. BEGUN, 1925. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, 1932.

AGRICULTURAL ECONOMICS

GENERAL

BUPEAU OF AGRICULTURAL ECONOMICS

Study of economic damage of smelter fumes in North Stevens County, Washington.
LEADER, J. T. Sanders. COOPERATION, B. C. & S., and B. P. I. BEGUN,
July 17, 1930. PROBABLE COMPLETION, September, 1931.

INDEPENDENT INSTITUTIONS

HARVARD UNIVERSITY - Economics of Danish agriculture. A study of the economic development of the last 60 years, present economic organization of production and trends of present development.

LEADERS, Einar Jensen and J. D. Black. AREA COVERED, Mostly Danish conditions but also some consideration of outside competition. TIME, 1870-1930. OBJECTIVE, To contribute to a more complete understanding of the reasons for the development and present organization of agricultural production in Denmark and thereby also in other North European countries on a free trade basis with respect to agriculture. To provide a basis for indication of future tendencies. BEGUN, 1930. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1932.

BROOKINGS INSTITUTION - Reorganizing the agricultural industry.

LEADER, E. G. Nourse. AREA COVERED, United States. TIME, Since the World War. OBJECTIVE, To appraise the major trend in the evolution of agriculture as a national industry. BEGUN, 1928. PERCENTAGE COMPLETED, 15%. PROBABLE COMPLETION, 1932.

UNIVERSITY OF TEXAS - Graphic picture of the cotton industry in Texas.

LEADER, A. B. Cox.

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GENERAL

BUREAU OF AGRICULTURAL ECONOMICS

Survey of the literature of rural social research in Europe.

LEADER, C. J. Galpin. COOPERATION, Minnesota Agricultural Experiment Station. BEGUN, February 1, 1929. PROBABLE COMPLETION, June 1, 1930.

STATE AGRICULTURAL EXPERIMENT STATIONS

KENTUCKY - An economic and social study of an eastern Kentucky mountain county (Knott County).

LEADERS, W. D. Nicholls, L. C. Gray, C. J. Galpin, C. L. Holmes, C. F. Clayton, Hildegard Kneeland, Faith Williams, and R. E. Marsh. OBJECTIVE, To evaluate economic and social opportunities and to provide the basic data necessary to formulate a program for making economic, social, and educational adjustments in this and other similar submarginal regions. AREA COVERED, Knott County, Kentucky. BEGUN, July 1, 1930. PHASES COMPLETED, Analysis of forestry data completed. Farm management analysis nearly completed. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, July 1, 1932.

MICHIGAN - Case studies of rural communities.

LEADER, Dr. Eben Mumford assisted by other members of Sociology Section. OBJECTIVE, To discover and analyze in detail social situations and community relationships in representative rural communities. AREA COVERED, Two or more rural communities having an unincorporated village as the center; several communities having medium-sized incorporated villages as their service centers; one or two communities in which the town is a county seat. TIME, Two or possibly more years depending upon how rapidly the data can be collected. BEGUN, September, 1930. PHASES COMPLETED, The field work in one community in which the town is a county seat has been completed and the data summarized. The field work in an unincorporated community is under way. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, 1931-1932.

MISSOURI - Rural community trends.

LEADER, Henry J. Burt. OBJECTIVE, To ascertain the trends in the development of the affairs of a number of small towns with view to ascertaining the conditions and circumstances under which change comes about and also the effect of the introduction of certain stimulating factors upon social change. AREA COVERED, Three counties in central Missouri. TIME, Five years. BEGUN, 1929. PHASES COMPLETED, A check was made in the first year's development in three communities. PERCENTAGE COMPLETED, 20%. PROBABLE COMPLETION, 1935.

RURAL SOCIOLOGY - GENERAL

NEW YORK CORNELL - The relation of human ecology to rural government.

LEADERS, E. Dwight Sanderson and C. R. Wasson. OBJECTIVE, To determine the relation of the existing local social and economic areas, as found in project on rural community areas, to the existing structure and functioning of local government including county, town and village. AREA COVERED, New York State. TIME, Study of present conditions. BEGUN, July 1, 1930. PHASES COMPLETED, Questionnaires secured from about 2,000 town, county, and village officials, and farmers. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, September, 1931.

NEW YORK CORNELL - A study of rural community areas in New York State.

LEADER, E. Dwight Sanderson. OBJECTIVE, To ascertain the factors which determine the area and structure of rural communities in central New York; the extent to which smaller communities are being absorbed into larger communities; and the influence of larger villages and cities on areas and structure of rural communities. AREA COVERED, Six counties in central New York. TIME, The studies of several of the counties involve a comparison of changes in institutions with 1900 and 1915. BEGUN, October, 1927. PHASES COMPLETED, Reports on two counties completed, one published, one in editorial office. Genesee County report ready for editing. Data gathered on three other counties and analysis for report 2/3 finished. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, December 31, 1932.

NORTH DAKOTA - A study of the causes and effects of the decreasing number of farms in North Dakota.

LEADER, H. C. Hoffsommer.

OKLAHOMA - A study of the relation of agricultural prosperity to the growth of selected towns in Oklahoma.

LEADER, O. D. Duncan. OBJECTIVE, To determine the degree of dependence of towns upon farm prosperity for this growth. AREA COVERED, Oklahoma. TIME, 1907-1930. BEGUN, October, 1929. PHASES COMPLETED, No particular phases actually completed. PERCENTAGE COMPLETED, 50% of data collected. PROBABLE COMPLETION, Late in 1932 or early in 1933.

SOUTH CAROLINA - Occupational mobility among farmers with special reference to certain socio-economic factors.

LEADER, B. O. Williams. OBJECTIVE, To ascertain extent of and occasions for occupational mobility among farmers. AREA COVERED, One county. TIME, 1930. BEGUN, July, 1931. PHASES COMPLETED, 2/3 of field work. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, July, 1932.

RURAL SOCIOLOGY - GENERAL

SOUTH DAKOTA - Town-country relationships in South Dakota.

LEADER, W. F. Kumlien. OBJECTIVE, To study certain economic and social relationships existing between town and country areas in South Dakota from the standpoint of their effect on community organization. AREA COVERED, Selected villages, towns, and cities, together with their respective surrounding country constituencies from the various types of farming regions in South Dakota. TIME, Primarily the past decade from 1920 up to the present. BEGUN, September 1, 1931.

TENNESSEE - The effect of the development of manufacturing in a given region on the welfare of the rural population.

LEADER, C. E. Allred. OBJECTIVE, To determine in what ways the development of manufacturing in a region is helpful to the rural population and in what ways it is harmful. AREA COVERED, Eastern Tennessee. TIME, Until significant results are secured. BEGUN, July 1, 1925. PHASES COMPLETED, Field work completed in four counties; one bulletin published; and two preliminary manuscripts prepared. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, 1933.

TENNESSEE - An analysis of the economic and social problems of the Tennessee Highland Area.

LEADER, C. E. Allred. OBJECTIVE, To secure data that will assist in developing the projects now in progress; outline more clearly the more important social and economic problems in this section; and provide a better basis for our future research program in this area. AREA COVERED, The Appalachian Highlands, which consists of 45 of the 95 counties of the State. TIME, 1931-1932. BEGUN, July 1, 1931. PHASES COMPLETED, None. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, 1932.

UTAH - A study of factors influencing the financial condition of certain Utah irrigation and drainage projects.
Sub Project C - Sociological aspects.

LEADER, Joseph A. Geddes. OBJECTIVE, To ascertain to what extent sociological factors (such as race conflict, religious prejudice, class antagonisms, population maladjustment, intercommunity jealousies, experience in cooperation) have entered into the financial condition of the West Millard County Irrigation and Drainage areas. AREA COVERED, Millard County drainage districts 1, 2, 3, 4, (West Millard County). TIME, 1928-32. BEGUN, 1929. PHASES COMPLETED, Preliminary work only. PERCENTAGE COMPLETED, 10%. PROBABLE COMPLETION, 1933.

UTAH - Studies of Utah towns and villages.

LEADER, Joseph A. Geddes. OBJECTIVE, Through a study of farm and village family use of community institutions and agencies to ascertain the relative

RURAL SOCIOLOGY - GENERAL

advantages under present conditions of living in town rather than on the farm. AREA COVERED, Four Utah villages in four different counties, each of a distinct type and representative of a fairly large number of villages. TIME, 1927 to 1932. BEGUN, 1927. PHASES COMPLETED, Records are completed and most of the tabulating is done. Some schedules are now in process of being filled in. There is some further work to be done in making a study of rise and growth of institutions of each village. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1932.

VIRGINIA - A study of economic and social conditions of the Virginia Highland area.

LEADER, H. N. Young and several others. OBJECTIVE, To outline the nature, extent and importance of the economic and social problem of the Virginia Highland area. AREA COVERED, The mountain section of Virginia. BEGUN, July 1, 1931. PHASES COMPLETED, Work planned. PROBABLE COMPLETION, June, 1932.

VIRGINIA - Community development trends.

LEADERS, W. E. Garnett and W. H. Hamilton. OBJECTIVE, To show changes taking place in various factors affecting community life and their consequences. AREA COVERED, Virginia. BEGUN, July 1, 1927. PERCENTAGE COMPLETED, 85%. PROBABLE COMPLETION, January 1, 1932.

VIRGINIA - Case studies in rural community development.

LEADER, B. L. Hummel. OBJECTIVE, To show by experimental procedure the relative importance of the factors entering the process of community organization. AREA COVERED, Virginia. BEGUN, July 1, 1929. PERCENTAGE COMPLETED, 67%. PROBABLE COMPLETION, July 1, 1932.

WISCONSIN - Restudy of neighborhoods and town-country relations.

LEADER, J. H. Kolb. OBJECTIVE, Study of changes, processes and trends in the group relations of rural society, particularly involving neighborhood and town-country relations. AREA COVERED, Dane County, Wisconsin. TIME, 10 years. (Original study made in 1921. Research Bulletin No. 51). BEGUN, January, 1931. PHASES COMPLETED, First phase of field work completed. 3/4 of second phase of field work completed. PERCENTAGE COMPLETED, 75% of field work, and 25% of analysis. PROBABLE COMPLETION, December, 1931.

UNITED STATES DEPARTMENT OF LABOR

CHILDREN'S BUREAU - The leisure-time activities of rural children in selected areas of West Virginia.

RURAL SOCIOLOGY - GENERAL

LEADERS, Ella Gardner, and Agnes K. Hanna. AREA COVERED, Five counties of West Virginia--Brooke, Hancock, Marshall, Ohio, and Webster Counties. TIME, 3 months. OBJECTIVE, To ascertain the amount of leisure that rural young people have and the kinds of recreation that they enjoy, with a view to formulating plans for the extension and betterment of the rural educational program of the State. BEGUN, Field work, February 13, 1928. PROBABLE COMPLETION, May 23, 1928. The report is now in course of editorial preparation for publication

INDEPENDENT INSTITUTIONS

INSTITUTE OF SOCIAL AND
RELIGIOUS RESEARCH - Study of rural social change.

LEADERS, Edmond deS. Brunner and J. H. Kolb. SCOPE, National. PROGRESS, The study was begun in January, 1929; field work is now complete; census data are being received daily; the entire study will be completed and the manuscript ready for the printer August 1, 1932; and publication will take place in January, 1933.

UNIVERSITY OF NORTH DAKOTA - Town-county relations, Ward County, North Dakota.

LEADER, L. O. Lantis. AREA COVERED, Ward County. TIME, Current and recent. OBJECTIVE, Cooperative and antagonistic conditions. BEGUN, Summer, 1931.

RURAL SOCIOLOGY

COST AND STANDARD OF LIVING

BUREAU OF AGRICULTURAL ECONOMICS

A study of rural standards of living together with the systems of farm organization and other conditioning factors in representative areas of Wisconsin.

LEADERS, C. J. Galpin and C. L. Holmes. COOPERATION, Division of F. M. & C. and Wisconsin Agricultural Experiment Station. BEGUN, July 1, 1929. PROBABLE COMPLETION, Two stencil bulletins issued; tabulation of schedules of second half of study in process.

The money income of farm boys and girls.

LEADERS, C. J. Galpin and Dwight Sanderson. COOPERATION, New York State Agricultural Experiment Station. BEGUN, April 1, 1930. PROBABLE COMPLETION, June 30, 1931.

Study of land utilization and conditions of living in marginal and submarginal areas of eastern Kentucky.

LEADERS, C. J. Galpin, L. C. Gray, C. L. Holmes, C. F. Clayton, Hildegard

RURAL SOCIOLOGY - COST AND STANDARD OF LIVING

Kneeland and Faith Williams; R. E. Marsh and W. D. Nicholls. COOPERATION, Kentucky Agricultural Experiment Station, and U. S. D. A. BEGUN, July 1, 1930. PROBABLE COMPLETION, June 30, 1931.

BUREAU OF HOME ECONOMICS

Food consumption of marginal farm families.

LEADER, Hazel K. Stiebeling. AREA COVERED, A study of the food supply of marginal farm families of Lee County, South Carolina, in its relation to Pellagra Incidence. A dietary study of two seasons among marginal farm families in Knott County, Kentucky. TIME, Lee County, South Carolina, April, 1929 - September, 1930. Knott County, Kentucky, July and August, 1931 and March and April 1932. OBJECTIVE, To furnish a sound basis for educational work pertaining to dietary habits and food production and conservation practices with a view to eradicating nutritional diseases and further improving the diets of the people. BEGUN, Lee County, Spring of 1929. PERCENTAGE COMPLETED, In manuscript. PROBABLE COMPLETION, Fall 1931. BEGUN, Knott County, July, 1931. PERCENTAGE COMPLETED, 25% of data collected. PROBABLE COMPLETION, Spring 1933.

Food consumption of representative farm families.

LEADER, Hazel K. Stiebeling. AREA COVERED, Records from 120 families in 27 States obtained by the Office of Home Economics and Bureau of Markets in 1917-18. Fifty records from 32 families in 3 States. Estimates from 2,400 families in 9 States, obtained in cooperation with B. A. E. and state agencies in 1923-27. TIME, Records from the 120 farm families were obtained on the quantity and cost of food used for one week periods, representing every month of the years, 1917 and 1918. The fifty records from 32 families represent accounts and dietary records kept for periods of one to twelve months in 1927, 1928 and 1930-31. Estimates of their food supply for the preceding year were obtained from 2,400 families in 1923-27. OBJECTIVE, To determine the kinds, amounts and money value of the food materials used by farm families, to evaluate the physiological adequacy and economy of the diets, and to determine the trends in food consumption. BEGUN, 1924. PERCENTAGE COMPLETED, Reports in preparation. PROBABLE COMPLETION, Fall, 1932.

Standards of living in the Southern Appalachian Highlands.

LEADER, Faith M. Williams. AREA COVERED, The data already available in published sources on standards of living in the entire Southern Appalachian region is being summarized and original research has been carried on in Knott County, Kentucky and Grayson County, Virginia. TIME, The investigation in Knott County, Kentucky covers the year 1929-30, that in Grayson County, Virginia the year 1930-31. OBJECTIVE, To show

RURAL SOCIOLOGY - COST AND STANDARD OF LIVING

variations in living standards between different mountain sections insofar as possible, and to indicate the major factors conditioning these variations. BEGUN, Spring, 1930. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, Spring, 1932.

STATE AGRICULTURAL EXPERIMENT STATIONS

GEORGIA - The standard of living in an industrial center as compared with that in a rural community.

LEADER, Leah Ascham. OBJECTIVE, Reasons - Economic and sociological - for the cotton mills being manned so largely by rural labor as is prevalent in this State and the South generally. AREA COVERED, At present, a cotton mill village near Griffin, other territory not chosen yet. TIME, 2-3 years. BEGUN, January 1, 1931. PHASES COMPLETED, None. PERCENTAGE COMPLETED, 50% of work outlined for study in mill village. PROBABLE COMPLETION, First portion, i.e., the mill survey by December 31, 1931.

KENTUCKY - A study of income and expenditures of farm families.

LEADERS, W. D. Nicholls, Merton Oyler and R. E. Proctor. OBJECTIVE, To determine the amount and purpose of the expenditures of groups of farm families in areas in which records of farm income are being kept; the total income of the families including the income from farming and other sources; and the relation of the amount and character of expenditures to total income and to expenditures for the farm business, investment, and family living, including the distribution of the expenditures for various classes of goods and services and for various members of the families by ages and sexes. In connection with data on family expenditures particular stress will be placed on the cost and adequacy of medical, hospital and nursing service available to and used by farm families. The final object of this study will be to throw light on incomes and expenditures and to furnish the basis for suggestions as to a redistribution of expenditures to the end that farm families may get a better standard of living on the incomes which they have available. AREA COVERED, Taylor, Green and Adair Counties, also Grayson County. TIME, 1923-29 for both areas. BEGUN, July 1, 1929. PHASES COMPLETED, Grayson County manuscript in the hands of printer. Taylor, Green and Adair data in process of tabulation. PERCENTAGE COMPLETED, 85%. PROBABLE COMPLETION, September 30, 1931.

MARYLAND - Factors affecting food consumption habits of farming people in Maryland.

LEADER, M. Coffin. OBJECTIVE, To determine what is influencing food consumption habits of farming people. AREA COVERED, Five or six communities in four counties. TIME, 1-1/2 years. BEGUN, March, 1929. PHASES COMPLETED, First Survey. PERCENTAGE COMPLETED, 33%. PROBABLE COMPLETION, 1935.

RURAL SOCIOLOGY - COST AND STANDARD OF LIVING

MICHIGAN - The standard of living of farm families in relation to farm income, types of farming and community advantages.

LEADER, Eben Mumford assisted by other members of Sociology Section. OBJECTIVE, To ascertain the living advantages of selected farm families in different parts of the State and the relationship between these advantages and income, farm practices, community institutions and organizations and certain other social conditions. AREA COVERED, Data have been secured for 380 farm families distributed as follows: 159 in two general farming areas; 89 in a dairy area; 72 in a community where potatoes are the principal crop; and 60 in two fruit areas. TIME, 2 years. BEGUN, March, 1929. PHASES COMPLETED, Field work is nearly completed and a large portion of the data are tabulated and summarized. PERCENTAGE COMPLETED, 60%. PROBABLE COMPLETION, Spring of 1932.

MISSOURI - Cost of family living on the farm.

LEADER, B. H. Frame. OBJECTIVE, To determine outlays for family living and contributions which the farm makes toward that living. AREA COVERED, Cost accounting farms scattered throughout the State and supplementary data from farm management surveys. TIME, Continuous since 1909. BEGUN, 1909. PHASES COMPLETED, Each record is completed for each year up to the present. PROBABLE COMPLETION, Continued indefinitely.

NEBRASKA - Costs and standards of living on Nebraska farms.

LEADER, H. C. Filley. OBJECTIVE, To study the economic environment of the Nebraska farm family. AREA COVERED, Selected areas in Nebraska. TIME, 1924 to present. BEGUN, 1924. PHASES COMPLETED, Data collected and tabulated. PERCENTAGE COMPLETED, Practically done. PROBABLE COMPLETION, October 1, 1931.

NEW YORK CORNELL - Index number of cost of living in small towns in New York State.

LEADERS, H. Canon and M. Fish. OBJECTIVE, To determine by investigation of the budgets of the typical village families in New York State, the amounts of goods consumed, and, by weighting the figures thus obtained with the prices collected for the index of fluctuations of money cost of consumer's goods purchased by farm families, to calculate the index number of the cost of living in small towns for the purpose of indicating the stability of village life for the wage earner, as compared with that of city life as shown by the cost of living index number for cities computed by United States Bureau of Labor statistics.

NEW YORK CORNELL - Cost of living for farm families.

LEADER, H. Canon. OBJECTIVE, To study: 1. Economic condition of representative groups of farm families. 2. Differences in financial management with

RURAL SOCIOLOGY - COST AND STANDARD OF LIVING

variation in income, capital, indebtedness, size of family and length of time that home has been established. 3. Types of expenditures curtailed on low incomes, thus indicating the effects of agricultural depression. Through a field survey in an area being surveyed by the Department of agricultural economics, 800 records will be obtained for household expenditures. As far as possible the 402 households studied by Dr. Kirkpatrick of the rural sociology organizations department will be included, thus furnishing interesting comparisons in addition to the comparisons with the farm management data.

NORTH CAROLINA - A study of the influence of community facilities upon farm family living conditions among white owner and tenant farmers in Wake County, North Carolina.

BEGUN, 1929.

NORTH CAROLINA - A study of factors conditioning the living of 35 typically successful farm owner families in Wake County, North Carolina.

LEADER, Myra de Haven Woodruff. OBJECTIVE, 1. To discover and analyze factors which lie within family organization and condition the standard of living. 2. To adapt the case study method to research with farm families. AREA COVERED, Wake County, North Carolina. TIME, Present. BEGUN, October 1, 1929. PHASES COMPLETED, At least 4 home visits have been made in about 90% of the families included. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1932.

NORTH DAKOTA - The farmer's standard of living.

LEADER, E. A. Willson. OBJECTIVE, To determine the cost of living and the relation between living conditions and income of farm families. AREA COVERED, State of North Dakota. TIME, 1925 to 1931, inclusive. BEGUN, January, 1928. PHASES COMPLETED, Data for the years 1925 to 1929 complete. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, December, 1932.

WISCONSIN - A study of rural standards of living together with the systems of farm organization and other conditioning factors in representative areas of Wisconsin.

LEADERS, E. L. Kirkpatrick, P. E. McNall, and M. L. Cowles in counsel with J. H. Kolb, E. H. Hibbard, and A. L. Marlatt; C. J. Galpin and C. L. Holmes of B. A. E. OBJECTIVE, 1. To measure content and degree of adequacy of the farmer's standard of living in selected counties representing several of the principal type-of-farming areas of Wisconsin. 2. To study in detail the organization and management of farms in each area, particularly in relation to income, for the purpose of determining the more efficient forms of organization and practices by which more

RURAL SOCIOLOGY - COST AND STANDARD OF LIVING

adequate incomes may be obtained. 3. To obtain information on family savings, investments, budgeting and history. The family history will include information as to size and membership of family, and also the religious, educational and community status and activity of the family. 4. To interpret the information obtained. AREA COVERED, Selected localities of Walworth, Green, Dane, Portage, Dunn, Langlade and Sawyer Counties representing 6 types of farming areas in the State of Wisconsin. Localities include 900 non-selected farm families in the 7 selected localities. TIME, One year representing both farm business and farm living expenditures and activities. BEGUN, July 1, 1929. PHASES COMPLETED, Field work, preliminary tabulations. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, October 15, 1931, except publication. Publication of final report, January 1, 1932.

UTAH - Family living expenditures on Utah farms.

LEADERS, W. P. Thomas and Edith Hayball. OBJECTIVE, To study the expenditures for family living of Utah farm families. AREA COVERED, Summit County, Utah. BEGUN, 1930. PHASES COMPLETED, Study completed for Summit County. PERCENTAGE COMPLETED, 100%. PROBABLE COMPLETION, June, 1931.

WISCONSIN - A study of cycles of family development and experiences in relation to standards of living and the ability to provide.

LEADER, E. L. Kirkpatrick, May L. Cowles in consultation with J. H. Kolb and Abby L. Marlatt; and C. J. Galpin, B. A. E. OBJECTIVE, 1. To determine the degree to which the prevailing standards of living are associated with cycles of family development; that is, are related to the period before there are children, the periods of pre-school, school, and after-school age, and the period after the children are gone. 2. To ascertain the extent to which the growth of the farm business resources and the ability to provide the goods and services of family living coincide with improvements in the standard of living and in turn with cycles of family development. 3. To determine the extent to which participation on the part of members of the family in different forms of community organizations, is associated with different levels or standards of living, with farm or other income and finally with the cycles of family growth and experience. 4. To discover, if possible, the point in family growth and development at which children become an asset on the farm. 5. To discover factors of causes and consequences. AREA COVERED, Selected localities in Walworth, Green, Dane, Portage, Dunn, Langlade and Sawyer Counties; localities included in previous study of rural standards of living, farm organization and family participation in community activity. TIME, Project drawn for fiscal year ending June 30, 1932 and deals with activities of families involved for a period of at least 3 years ending June 30, 1932. BEGUN, July 1, 1931. PHASES COMPLETED, Part of the field work and part of the tabulation. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, July 1, 1932.

RURAL SOCIOLOGY

POPULATION

BUREAU OF AGRICULTURAL ECONOMICS

Movement of population to and from farms.

LEADER, C. J. Galpin. COOPERATION, Missouri Agricultural Experiment Station. BEGUN, March 1, 1924. PROBABLE COMPLETION, Manuscript ready for printer June, 1931.

Rural population - composition and changes.

LEADER, C. J. Galpin. COOPERATION, Michigan Agricultural Experiment Station. PROBABLE COMPLETION, Manuscript for bulletin nearing completion.

Study of certain qualitative phases of migration from farms to cities in Montana.

LEADER, C. J. Galpin. COOPERATION, Montana Agricultural Experiment Station. BEGUN, December 15, 1927. PROBABLE COMPLETION, Analysis and interpretation in preparation.

Primary population groups and social organizations.

LEADER, C. J. Galpin. COOPERATION, North Dakota Agricultural Experiment Station. BEGUN, July 1, 1928. PROBABLE COMPLETION, Field work completed.

Population substitutions in rural Vermont.

LEADER, C. J. Galpin. COOPERATION, Vermont Agricultural Experiment Station. BEGUN, August 1, 1929. PROBABLE COMPLETION, Manuscript completed.

STATE AGRICULTURAL EXPERIMENT STATIONS

CONNECTICUT STORES - Population mobility in rural Connecticut.

LEADERS, J. L. Hypes and V. A. Rapport. OBJECTIVE, To measure the residential mobility of case-types of rural families and to correlate it with a number of other socio-economic factors. AREA COVERED, Six towns selected for certain professional and practical reasons. TIME, Two years. BEGUN, Fall of 1929. PHASES COMPLETED, Field work and tabulations (with exception of some possible minor phases). PERCENTAGE COMPLETED, All but interpretative work and writing report. PROBABLE COMPLETION, December, 1931.

CONNECTICUT STORES - Causal studies in the origin and character of the rural population in Connecticut.

LEADER, J. L. Hypes. OBJECTIVE, To study the human material found in selected areas on several groups of soils; to measure the effect of known and evaluated differences in soils and farm returns upon the "character" of the rural population.

RURAL SOCIOLOGY - POPULATION

MICHIGAN - Analysis of the nationality and other population groups in Michigan and their contribution to agriculture and rural life.

LEADERS, Eben Mumford and J. F. Thaden. OBJECTIVE, To analyze the variation in the age, sex, race, and nationality composition in various counties; their trends; whether increasing or decreasing; predominant foreign-born settlements; religious composition and distribution of population; inter-state migration; and variation in the urban, rural-farm, rural-non farm, incorporated and unincorporated population by counties. AREA COVERED, Entire State. TIME, Nearly 2-1/2 years. BEGUN, Spring of 1928. PHASES COMPLETED, Field work and most of the tabulations. In 1929 a bulletin manuscript was completed and is now being revised and brought up-to-date embodying data from the 1930 census. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, Spring of 1932.

MISSOURI - Rural population.

LEADER, E. L. Morgan. OBJECTIVE, To study the movements of population in Missouri with a view to ascertaining the conditions and circumstances under which migration from farm to town takes place, also the trends in growth or decline of towns of the State of various population classifications. AREA COVERED, State of Missouri. TIME, 4 years. BEGUN, 1926. PHASES COMPLETED, Migration from farms to towns and the classification of towns on the basis of growth or decline by decades and by size of town. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, 1935.

WASHINGTON - A study of the flow of rural population and wealth to urban centers and the flow of urban population and wealth to rural areas.

LEADERS, F. R. Yoder, and A. A. Smick. OBJECTIVE, 1. To discover the extent of farm migration from selected typical rural communities in Washington. 2. To determine the flow of rural wealth from rural communities to urban communities by the transfer of property rights from rural to urban communities, by the transfer of residence of rural people to cities, by the inheritance of rural property, and by the volume of mortgage indebtedness on rural property held by people of urban residences. 3. To discover the extent of urban migration to rural areas in typical sections of the State of Washington. 4. To determine the flow of urban wealth from urban communities to rural areas by the transfer of property rights from urban to rural communities, by the transfer of residence of urban people to rural areas, by the inheritance of urban property and by the volume of mortgage indebtedness on urban property held by people of rural residence. AREA COVERED, Selected rural communities in Whitman County and any other counties in the State of Washington that may afford data for valid comparisons. TIME, Two years. BEGUN, April 1, 1931. PHASES COMPLETED, Good start has been made on field work. PERCENTAGE COMPLETED, None. PROBABLE COMPLETION, First half of project, July 1, 1932.

RURAL SOCIOLOGY

SOCIAL GROUPS, INSTITUTIONS, AND ORGANIZATIONS

BUREAU OF AGRICULTURAL ECONOMICS

Social and economic structure of Utah farm village communities.

LEADER, C. J. Galpin. COOPERATION, Brigham Young University, Provo, Utah. BEGUN, October 15, 1923. PROBABLE COMPLETION, Two bulletins issued; manuscripts for third bulletin to be completed during winter.

A study of rural community organization in Michigan.

LEADER, C. J. Galpin. COOPERATION, Michigan Agricultural Experiment Station. BEGUN, September 10, 1925. PROBABLE COMPLETION, Manuscript for bulletin nearing completion.

Rural social organization: A study of local and state rural social organizations in South Dakota contributing to a permanent agriculture.

LEADER, C. J. Galpin. COOPERATION, South Dakota Agricultural Experiment Station. BEGUN, October 1, 1925. PROBABLE COMPLETION, Two bulletins published; one other in manuscript form.

Study of rural community areas in New York State.

LEADER, C. J. Galpin. COOPERATION, New York State Agricultural Experiment Station. BEGUN, October 1, 1927. PROBABLE COMPLETION, Field work completed.

Factors influencing the effective location and functioning of rural groups.

LEADER, C. J. Galpin, Fred R. Yoder, and Harvey W. Starling. COOPERATION, Washington Agricultural Experiment Station. BEGUN, July 1, 1929. PROBABLE COMPLETION, Manuscript in process.

Rural social agencies in Colorado: Classification and evaluation.

LEADERS, C. J. Galpin and B. F. Coen. COOPERATION, Colorado Agricultural Experiment Station. BEGUN, February 1, 1931. PROBABLE COMPLETION, June 30, 1931.

The relation of human ecology to rural government.

LEADERS, C. J. Galpin and Dwight Sanderson. COOPERATION, New York State Agricultural Experiment Station. BEGUN, November 1, 1930. PROBABLE COMPLETION, June 30, 1931.

Study of rural fairs, festivals, pageants, plays, and folk life in Europe.

LEADERS, C. J. Galpin and A. G. Arvold. COOPERATION, North Dakota Agricultural Experiment Station. BEGUN, June 1, 1930. PROBABLE COMPLETION, June 30, 1931.

A study of changes and tendencies in town and country relations in Wisconsin.

LEADERS, C. J. Galpin, J. H. Kolb, and R. A. Polson. COOPERATION, Wisconsin Agricultural Experiment Station. BEGUN, April 1, 1930. PROBABLE COMPLETION, October 1, 1930.

RURAL SOCIOLOGY - SOCIAL GROUPS, INSTITUTIONS, AND ORGANIZATIONS

BUREAU OF HOME ECONOMICS

The work of the rural household: A study of 929 country and village homes.

LEADER, Hildegard Kneeland. AREA COVERED, Records from households in 31 States. TIME, The data cover five records of the work of each household for a typical week, kept during 1924 to 1928. OBJECTIVE, To determine the nature and amount of work now done in rural homes, the extent to which rural housewives are overworked and underworked, the conditions affecting their work of the home and the means by which the time spent in housekeeping can be reduced and the use of leisure time improved. BEGUN, 1924. PERCENTAGE COMPLETED, Report in preparation. PROBABLE COMPLETION, Spring of 1932.

STATE AGRICULTURAL EXPERIMENT STATIONS

COLORADO - A study of rural social agencies in Colorado.

LEADER, B. F. Coen. OBJECTIVE, To determine the place which these agencies are taking in the development of an effective rural social program. AREA COVERED, General review of rural social agencies throughout the entire State. BEGUN, 1931. PERCENTAGE COMPLETION, Beginning. PROBABLE COMPLETION, Two to three years.

CONNECTICUT STORRS - Rural recreation in Connecticut.

LEADERS, J. L. Hypes and V. A. Rapport. OBJECTIVE, A descriptive presentation of the recreational phases of rural life in Connecticut, including summer hotels, golf and similar sporting organizations, etc. AREA COVERED, State of Connecticut. TIME, Two years. BEGUN, Fall, 1930. PHASES COMPLETED, Field work about half done. PERCENTAGE COMPLETED, 25%. PROBABLE COMPLETION, July 30, 1932.

ILLINOIS - Factors affecting participation in rural social organizations.

LEADERS, D. E. Lindstrom, and H. W. Mumford. OBJECTIVE, To obtain in a preliminary study facts which may assist rural people in planning their group activities. AREA COVERED, Entire State and selected areas within certain counties. TIME, Indeterminate. BEGUN, March, 1930. PHASES COMPLETED, Inventory of groups operative in rural communities and the nature of their structure and functioning. PERCENTAGE COMPLETION, 30 to 50%. PROBABLE COMPLETION, July, 1932.

MICHIGAN - Socializing influences of organizations in relation to rural life.

LEADER, Eben Mumford assisted by other members of Sociology Section. OBJECTIVE, To determine the extent to which farmers are affiliated with

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organizations, the number and variety of their affiliations, the influences that membership in specified types of organizations have upon affiliation with other specified types of organizations, comparison of these tendencies with non-farmers and urban people. AREA COVERED, Sixty communities scattered over twelve counties in the southern part of the State; Who's Who in America, 1926-27 edition, and RUS, 1925 edition. TIME, 3 years. BEGUN, Fall of 1927. PHASES COMPLETED, Field work and tabulation. A bulletin manuscript is about 75% finished. PERCENTAGE COMPLETED, 75%. PROBABLE COMPLETION, Summer of 1932.

MICHIGAN - A study of rural community organizations in Michigan.

LEADER, Eben Mumford assisted by other members of Sociology Section. OBJECTIVE, To study the historical development of the town-country community and its relation to township, primary school district, neighborhood, county, and metropolitan center; determine methods of locating community boundaries, and changes in population and area. Discover relation of size and type of community to number and variety of organizations and institutions. AREA COVERED, 59 town-country communities in 5-1/2 counties in the Lansing area and 4 town-country communities in other parts of the State. TIME, 2-1/2 years. It was largely inactive during the past two years pending the 1930 census returns. BEGUN, Fall of 1925. PHASES COMPLETED, Field work, tabulation and largely written up in two bulletin manuscripts. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, Spring of 1932.

MICHIGAN - The relation of the town and country church as a social institution to community activities in the Lansing area.

LEADERS, Eben Mumford and P. H. Pearson. OBJECTIVE, To determine the present status of the town and country church as a social institution expressed through equipment, membership, finance, program, pastoral leadership, and community service; relation of the town church to the surrounding service area; and relationship of church groups to non-church groups. AREA COVERED, Eaton county, primarily, with a brief survey of four other counties in the Lansing area. TIME, Less than a year. BEGUN, Spring of 1928. PHASES COMPLETED, 90% of field work. PERCENTAGE COMPLETED, 40%. PROBABLE COMPLETION, 1933.

MICHIGAN - A study of service institutions.

LEADER, Eben Mumford assisted by other members of Sociology Section. OBJECTIVE, To make a record and analysis of meetings held in rural communities in order to determine the services given by different institutions and organizations. AREA COVERED, Ten selected town-country communities in central Michigan. TIME, Two years. BEGUN, October 1,

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1928. PHASES COMPLETED, All completed. PERCENTAGE COMPLETED, 100%.
PROBABLE COMPLETION, Completed now.

MISSOURI - Rural community organization in public welfare.

LEADER, Walter Burr. OBJECTIVE, To ascertain the conditions and circumstances surrounding disadvantaged families on farms with particular reference to the extent of and methods used in poor relief. AREA COVERED, Boone County, Missouri. TIME, One year. BEGUN, 1929. PHASES COMPLETED, A general study of methods of poor relief in the State of Missouri. PERCENTAGE COMPLETED, 33%. PROBABLE COMPLETION, 1934.

NEW YORK CORNELL - The income of farm boys and girls.

LEADERS, Dwight Sanderson and H. W. Beers. OBJECTIVE, To determine the money income of farm boys and girls as a phase of family relationships. AREA COVERED, New York State. TIME, 1930-31. BEGUN, 1927. PHASES COMPLETED, One study of 300 schedules from one area completed and published as Bulletin 512. 1250 similar schedules secured by mail and ready for tabulation. PERCENTAGE COMPLETION 66% of whole project; 33% of schedules now being studied. PROBABLE COMPLETION, Spring, 1932.

NEW YORK CORNELL - The sociology of the rural family.

LEADER, Lemo T. Dennis. OBJECTIVE, To determine those family relationships which may be observed and described, and how these data may be secured, as a means of establishing a scientific method of describing rural families. AREA COVERED, Families in Ithaca, New York, and in two neighboring rural communities. TIME, September, 1929 to September, 1931. BEGUN, September, 1929. PHASES COMPLETED, Data gathered and manuscript report practically completed. PROBABLE COMPLETION, September, 1931.

NEW YORK CORNELL - The relative social efficiency of New York counties.

LEADERS, Dwight Sanderson and A. C. Seymour. OBJECTIVE, To determine indices of social efficiency and to correlate them with available statistical data of conditioning factors, for the various counties of New York State. AREA COVERED, Counties of New York State. TIME, One year or average of 5 year period according to nature of data. BEGUN, July 1, 1930. PHASES COMPLETED, Statistical data compiled and counties ranked for each category. PERCENTAGE COMPLETED, 50%. PROBABLE COMPLETION, Date of completion problematical.

NEW YORK CORNELL - Hospital and medical service for rural people.

LEADERS, Dwight Sanderson and C. G. Bennett. OBJECTIVE, To determine the use of the Ithaca Hospital by rural patients and the hospital facilities

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for rural people by counties for New York State. AREA COVERED, Intensive study of Tompkins County. Study of hospital beds per 1,000 population for each county. TIME, Records of Ithaca Memorial Hospital for 1925-29 inclusive. BEGUN, February, 1930. PHASES COMPLETED, Tabulation completed. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, October, 1931.

NEW YORK CORNELL - Study of rural community areas in New York State.

LEADERS, D. Sanderson, W. A. Anderson and A. M. Paxson. (Cooperating with B. A. E.). OBJECTIVE, To determine: 1. Factors determining the area and structure of rural communities in central New York. 2. The extent to which smaller communities are being absorbed into larger communities. 3. The influence of larger villages and cities on structure of rural communities. Study to be conducted by questionnaires and monthly visits to village centers and service agencies.

NEW YORK CORNELL - The sociology of the rural family.

Sub Project A. Income of farm boys and girls.

Sub Project B. Grandfather farms.

OBJECTIVE, To determine under A, the amount and sources of money income of farm boys and girls, some of the family conditions affecting this income, and the amount and character of work done on the farm and in the home in relation to money income and school advancement. (Sub Project A is cooperating with B. A. E.). Under B, to determine what social and family relationships tend to keep property in families for several generations. Under A, data to be obtained by analyzing questionnaires submitted to high school students and 4-H club members. Under B, information to be secured by personal interviews and review of earlier studies. Neighboring families used as controls.

NORTH CAROLINA - Membership problems of cooperative marketing in North Carolina.

BEGUN, 1926. The data on this project have been summarized and put into shape for ready reference. It does not seem desirable to publish this material.

NORTH CAROLINA - A study of rural community organizations in North Carolina.

Manuscript covering this project was received August 15 and is now being edited.

NORTH DAKOTA - Factors entering into the success or failure of rural social organizations.

LEADERS, E. A. Willson, and A. H. Benton. OBJECTIVE, To determine the factors responsible for the distribution and the success or failure

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of rural community clubs in North Dakota. AREA COVERED, State of North Dakota. TIME, 3 years. BEGUN, September, 1925. PHASES COMPLETED, Complete.

NORTH DAKOTA - Rural social organizations and agencies.

Sub Project. Primary population groups and social organizations.

LEADER, E. A. Willson. OBJECTIVE, To determine the boundaries of primary rural population groups, the fundamental characteristics of these groups, and changes taking place in group boundaries. AREA COVERED, Grand Forks County, North Dakota. TIME, From time of settlement of area to present. BEGUN, July, 1928. PHASES COMPLETED, All data secured. PERCENTAGE COMPLETED, 90%. PROBABLE COMPLETION, December, 1931.

OHIO - Trends in social organization in four Ohio counties.

LEADER, R. C. Smith. OBJECTIVE, To discover the trend in number, size, character, etc. of rural social organizations. AREA COVERED, Four counties. TIME, 1926. BEGUN, 1926. PHASES COMPLETED, Collecting data and much analysis. PERCENTAGE COMPLETED, 80%. PROBABLE COMPLETION, 1931.

SOUTH DAKOTA - Social change in Brookings County.

LEADER, W. F. Kumlien. OBJECTIVE, To ascertain the main types and extent of social changes which have taken place in Brookings County from 1867 to 1930 together with an interpretation of the main causes and results of these changes. AREA COVERED, Brookings County, with general comparisons of similar data for the State of South Dakota. TIME, 1867 to 1930. BEGUN, July 1, 1930. PHASES COMPLETED, No single phases completed. PROBABLE COMPLETION, June 30, 1932. PERCENTAGE COMPLETED, 25%.

WASHINGTON - Community organization in selected communities in the State of Washington.

LEADERS, F. R. Yoder assisted by Harvey W. Starling. OBJECTIVE, The objectives of this project are to discover forms, means, and practices of effective community social organizations for social advantages in selected communities in the State of Washington, and also to determine the traits of effective community leaders. Types of organizations and clubs that will be studied include local granges, local farmers' unions, community farm bureau clubs, 4-H clubs and special community clubs. This study will differ from three preceding studies of social organization in Whitman, Whatcom and Clarke counties in that: a. Selected communities in any counties in the State will be studied; b. that it will be analytical and intensive for each organization studied; c. that the traits of leaders in these social organizations will be studied; d. that it will be limited to organizations for the social advantage of

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communities. AREA COVERED, Selected rural communities in the State of Washington having effective community organizations, headquarters at Pullman, Washington. TIME, One year. BEGUN, June 1, 1929. PHASES COMPLETED, Practically completed as of July 1, 1931. PERCENTAGE COMPLETED, Practically 100%. PROBABLE COMPLETION, August 10, 1931.

INDEPENDENT INSTITUTIONS

INSTITUTE OF SOCIAL AND

RELIGIOUS RESEARCH - The study of six kinds of territories where rural churches are comparatively ineffective.

LEADER, Elizabeth R. Hooker. AREA COVERED, Geographic. The study covers Mountain and Pacific Census Divisions of the United States; part of the grazing, dry-farming and mountain and cut-over sections; cut-over regions of the mid-west; the hill country of New England; and certain sections of the Middle West. BEGUN, Summer of 1928. COMPLETED, Summer of 1931.

INSTITUTE OF SOCIAL AND

RELIGIOUS RESEARCH - The churches and church educational institutions in the Southern Appalachian Highlands.

LEADER, Elizabeth R. Hooker. PROGRESS, This study has just been begun.

INSTITUTE OF SOCIAL AND

RELIGIOUS RESEARCH - Study of rural social and economic life in Asia with special reference to problems of Christian Missions.

(This is a part of a far larger investigation covering urban life, industry, education, health and medicine and women on the farm, etc.)

LEADERS, Galen M. Fisher, W. A. Anderson, Fred Yoder and J. L. Hypes.

AREA COVERED, The situation in Japan, China and India has been covered.

BEGUN, September, 1930. PHASES COMPLETED, Field work. PROBABLE COMPLETION, Manuscript in process of being written up.

RURAL SOCIOLOGY

SOCIAL PSYCHOLOGY

BUREAU OF AGRICULTURAL ECONOMICS

Membership relations study of the Ohio Farm Bureau Federation and related organizations.

LEADERS, C. J. Galpin and T. B. Manny. COOPERATION, Ohio State Agricultural Experiment Station. BEGUN, January 15, 1930. PROBABLE COMPLETION, July 1, 1931.

RURAL SOCIOLOGY - SOCIAL PSYCHOLOGY

Study of one-variety cotton communities.

LEADERS, C. J. Galpin, O. F. Cook, T. B. Manny, and J. A. Shanklin.

BEGUN, January 1, 1930. PROBABLE COMPLETION, June 30, 1931.

Membership relations toward local organizations.

LEADERS, C. J. Galpin, T. B. Manny, W. E. Garnett and R. A. Polson.

COOPERATION, Virginia Agricultural Experiment Station. BEGUN, January 1, 1931. PROBABLE COMPLETION, June 30, 1931.

